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LEBANON COMPRESSOR STATION CHARACTERIZATION REPORT/ RESPONSE ACTION WORK PLAN

MEIGS COUNTY, OHIO

30 AUGUST 2001 [Revision No. 1: 23 April 2002]

Prepared for: COLUMBIA GAS TRANSMISSION

By: SE TECHNOLOGIES, INC. ENVIRONMENTAL STANDARDS, INC.



2.0 ENVIRONMENTAL SETTING

2.1 Physical Setting

The Lebanon Compressor Station is located on approximately five (5) acres, of which the primary operations encompass three (3) acres. The eastern property boundary is bound by a four (4) feet high fence (Figure 1-2). The site is located in the southern quadrant of the Portland, Ohio 7.5 minute United States Geological Survey (USGS) Quadrangle (Figure 1-1). The Lebanon Compressor Station is found within an area of high topographical relief. The site is at an elevation of approximately six hundred twenty (620) feet above mean sea level (msl). The elevation of the surrounding ridge tops, within a one (1) mile radius of the site, ranges from eight hundred (800) to nine hundred (900) feet above msl. The surface topography is gently sloping across the site. The area ground surface gently slopes toward Groundhog Creek located along the southern property boundary. Site access is by a driveway off of Trouble Creek Road.

2.2 Climate

The site is located in Meigs County, Ohio, which is characterized by a moderate climate with hot, humid summers and cold winters. The average daily temperature is 32.0 degrees Fahrenheit in the winter and 71.0 degrees Fahrenheit in the summer. The Meigs County area receives an average annual precipitation of 40.0 inches and an average snowfall of 21.0 inches. Prevailing winds are from the south. The average relative humidity in mid-afternoon is 60 percent; at dawn, 80 percent. (U. S. Department of Agriculture, Soil Survey of Meigs County, Ohio, 1996).

2.3 Surface Water Hydrology

The site is located in the Groundhog Creek drainage basin, which discharges to the Ohio River approximately five (5) miles southeast of the site. The site is located in a rural area approximately three (3) miles west of Portland, Ohio and five (5) miles north of Ravenswood, West Virginia. Land use within the immediate site area consists primarily of undeveloped, wooded areas with open grassland and dispersed residences primarily along the stream valleys. The surrounding land surface is contoured by a well defined dendritic surface-water drainage network that flows south. The site is located seventy (70) feet north and along the flood plain of Groundhog Creek.

Surface water drainage across the site operations area is through overland flow southward and towards Groundhog Creek and through infiltration. An unnamed tributary to Groundhog Creek, trending north/south, is located along the eastern fence line. One (1) outfall is constructed along Groundhog Creek located south of the facility operations area.

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2.4 Geology and Soils

The site is situated within the Marietta Plateau Physiographic Province, Western Allegheny Plateau region of the Appalachian Highlands. Surface geology of this area is comprised of sedimentary rocks including shale, sandstone, siltstone, thin coals, and marly limestone from the Dunkard Group of Premian Age (Figure 2-1). Formation thickness in the site area is approximately four hundred (400) feet. The site is located within the flood plain of Groundhog Creek; therefore, the surface soils are comprised of alluvial deposits mixed with colluvium derived from local bedrock. Based on visual observations made during the current site characterization activities, the surface soils at the site consist of alluvium consisting primarily of clay to silty clay with varying amounts of sand and gravel. Bedrock is estimated to range in depth from less than ten (10) to twenty (20) feet below grade.

Review of the United States Department of Agriculture (USDA) Soil Survey (1983) found that the site is underlain by the Moshannon (MO) soil series (Figure 2-1). This soil is characterized as a silt loam that is frequently flooded. Adjacent areas to the site are underlain by the Upshur-Gilpin Complex (UGE) and Chagrin (Cg) silt loam. These soils form on flood plains and consist of a deep, well-drained alluvium. Slopes range from 25 to 30 percent for Upshur-Gilpin Complex. (Ohio Geological Soil Survey, 1983).

2.5 Hydrogeology and Groundwater Quality

Throughout the site region, usable quantities of groundwater are generally obtained from wells installed into the alluvium of the nearby Ohio River. The facility has an on-site water well, which is used for facility operations. Public water is the main source of potable water for Lebanon Compressor Station.

Groundwater occurs in the natural porosity of both the unconsolidated sediment (alluvium) and the consolidated bedrock. In unconsolidated sediments, porosity results from intergranular pore spaces (primary porosity). In consolidated rock, the pore spaces are reduced substantially through compaction and cementation, while porosity attributable to joints and bedding plane partings (secondary porosity) becomes significant. In the site vicinity, however, neither primary nor secondary porosity is sufficiently developed to result in a high-quality, reliable bedrock aquifer (Dames & Moore, 1993).

Undefined sources referenced in the Dames & Moore PCB Screening Report (15 December 1993) stated that four (4) water wells in unconsolidated sediments exist within Lebanon Township along the Ohio River. The wells range from sixty-three (63) to one hundred (100) feet deep and produce ten (10) gallons per minutes (gpm) to four hundred (400) gpm. Away from the Ohio River, wells in the township are drilled in bedrock. Dry wells are common and the highest recorded yield from local bedrock wells is three (3) gpm. Bedrock water wells have depths ranging from one hundred

This section (Section 4) presents the comparison of site data to the residential CALs. Where additional evaluation is warranted, i.e., comparison to land-use specific RALs, that evaluation will be discussed in Section 5.0.

4.2 Site Physical Description

Based on a review of soil descriptions, the surface soils at the site consist primarily of brown, clay to silty clay with various amounts of sand and gravel. Isolated zones of increased sand and gravel content were encountered as characteristics of flood plain alluvial deposits within eastern Ohio. Refusal was encountered in various Geoprobe[®] borings at depths ranging from nine (9) to eleven (11) feet bgs indicating the bedrock surface. Evidence of groundwater was not observed during the soil boring program of the site characterization.

4.3 Analytical Results for Investigative Samples

A summary of the analytical methods for each PRA is shown in Table 4-2. Analytical results for the sampling completed are summarized in Table 4-3. A summary of QA/QC samples is presented in Table 3-4.

Figures 4-2 A, B, and C present analytical results that exceed the CALs and/or background on the site base map to facilitate review. The results are discussed by media by PRA in the following subsections. The results are also provided on a compact disk. Columbia maintains a hard copy of all analytical data should additional review be needed.

4.3.1 Background Sampling Results

A total of ten (10) background soil samples were collected for this characterization as presented below:

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Sample Number	Depth (ft)	Analysis		
LEB-ASB045-70001	3 - 4			
LEB-BSB056-70001	10 - 11	Table 1		
LEB-ASB046-40001				
LEB-ASB048-40001				
LEB-ASB049-40001				
LEB-ASB050-40001	0 - 1			
LEB-ASB051-40001	0-1	Arsenic		
LEB-ASB052-40001				
LEB-ASB053-40001				
LEB-ASB054-40001				

All constituents were below CALs except for Arsenic, which ranged in concentration from 4.0 milligrams per kilogram (mg/kg) to 7.6 mg/kg.

As provided for in the CWP, the highest concentration of a constituent detected or a concentration equal to two (2) times the arithmetic mean of levels detected in background samples as presented in Appendix H are used to establish background concentrations. The site background concentrations were calculated for those constituents detected in at least one (1) background sample. The calculated background concentrations are presented below:

Analyte	Background Level (mg/kg)
Arsenic	12.6
Chromium	40.1
Barium	299.6
Cadmium	1.6
Nickel	42.3

No Volatile Organic Compounds (VOCs), PAHs or PCBs were detected in the background samples.

4.3.2 Random PCBs Sample Results

Six (6) random surface soil samples were collected from a depth interval of 0.0 - 1.0 feet bgs and submitted for analyses of PCBs. PCB concentrations were non-detect or detected below the CAL.

4.3.3 Soil Sample Results

PRA #1 – Former 2,912-Gallon Pipeline Liquids AT and Former 2,564-Gallon Pipeline Liquids AT

Two (2) surface soil samples (0.0 - 1.0 feet bgs) and two (2) subsurface soil samples (2.0 - 3.0 feet bgs) were collected from two (2) soil borings and submitted for BTEX and PCB analyses. In addition, the surface and subsurface soil samples collected from one (1) of the soil borings were also analyzed for PAHs. PCB and PAH concentrations were not detected. BTEX concentrations were non-detect or detected below the CAL.

PRA #2 – 25-Gallon Waste Oil AT

One (1) surface soil sample (0.0 - 1.0 foot bgs), one (1) duplicate sample, and two (2) subsurface soil sample (2.0 - 3.0 feet bgs) and 3.0 - 4.0 feet bgs) were collected from one (1) soil boring and submitted for BTEX, PCB, PAH, and Lead analyses. PCB and PAH concentrations were not detected. BTEX and Lead concentrations were non-detect or detected below the CALs.

PRA #3 – NGL Reboiler Unit, 552-Gallon Used Glycol UT, NGL Flare, and Drum Storage Area #3, 125-Gallon Glycol Supply/Overflow AT

NGL Reboiler Unit, Drum Storage Area #3

One (1) surface soil sample (0.0 - 1.0 foot bgs) and four (4) subsurface soil samples (two [2] 2.0 - 3.0 feet bgs and two [2] 3.0 - 4.0 feet bgs) were collected from two (2) soil borings and submitted for BTEX, PCBs, and Arsenic. PCB concentrations were not detected. BTEX and Arsenic concentrations were non-detect or detected below the CALs and/or background.

One (1) surface soil sample (0-1 foot bgs) and two (2) subsurface soils samples (2-3 feet bgs) and 3-4 feet bgs) were collected from one (1) soil boring and submitted for BTEX, PCB, Arsenic, and Glycol. In addition, the surface soil sample was analyzed for PAHs. PAH, PCB, and Glycol concentrations were not detected. BTEX and Arsenic concentrations were non-detect or detected below the CALs and/or background.

30 August 2001 [Revision No. 1: 23 April 2002] One (1) subsurface soil sample (2.0 - 3.0 feet bgs) was collected and submitted for BTEX, PCB, Glycol, and Table 1 Metals analyses. PCB concentrations were not detected. BTEX, Glycol, and Table 1 Metals concentrations were non-detect or detected below CALs and/or background.

552-Gallon Used Glycol UT

Two (2) subsurface soil samples (9.0 - 10.0 feet bgs and 10.0 - 11.0 feet bgs) were collected from two (2) soil borings and were submitted for BTEX, PCB, and Arsenic analyses. BTEX concentrations were not detected. PCB and Arsenic were non-detect or detected below the CALs and/or background.

One (1) surface soil sample (0.0 - 1.0 foot bgs) was collected and submitted for BTEX, PCB, PAH, and Arsenic analyses. PAH and PCB concentrations were not detected. BTEX and Arsenic concentrations were non-detect or detected below the CALs and/or background.

NGL Flare and 125-Gallon Glycol Supply/Overflow AT

Three (3) surface soil samples (0.0 - 1.0 feet bgs) were collected and submitted for BTEX, PCBs, PAHs, and Table 1 Metals analyses. PAH concentrations were not detected. BTEX, PCB, and Table 1 Metals concentrations were non-detect or detected below the CALs and/or background.

PRA #4 - 4,200-Gallon Basement Water AT

One (1) surface soil sample (0.0 - 1.0 feet bgs) and two (2) subsurface soil samples (2.0 - 3.0 feet bgs) and 3.0 - 4.0 feet bgs) were collected from one (1) soil boring and submitted for BTEX and PCB analyses. BTEX and PCB concentration were not detected.

PRA #5 - 1,474-Gallon Pipeline Liquids UT, 1,000-Gallon New Glycol UT, 1,000-Gallon Used Glycol UT, and 1,000-Gallon New Oil UT

Four (4) surface soil samples (0.0 - 1.0 foot bgs) and four (4) subsurface soil samples (10.0 - 11.0 feet bgs) were collected from four (4) soil borings and four (4) surface locations, and submitted for BTEX, PCB, and Arsenic analyses. The four (4) surface soil samples and one (1) subsurface soil sample were also analyzed for PAHs. BTEX and PAH concentrations were not detected. PCB and Arsenic concentrations were non-detect or detected below the CAL and/or background.

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PRA #6 - Former 564-Gallon New Oil UT, Former 288-Gallon New Oil UT, Former ART, Former Drum Storage Area #2

<u>Former 564-Gallon New Oil UT, Former 288-Gallon New Oil UT, and Former Drum Storage</u> <u>Area #2</u>

Two (2) surface soil samples (0.0 - 1.0 foot bgs) and one (1) duplicate sample were collected from two (2) soil borings and were submitted for analyses of Table 1 list of constituents. VOC and PAH concentrations were not detected. Table 1 Metals concentrations were non-detect or detected below the CAL and/or background. PCBs were non-detect or detected below the CAL and/or background except for the following:

Sample Number	Depth (ft)	Analyte	Result (mg/kg)	CAL (mg/kg)	
LEB-ASB016-40001	0 - 1	PCB Aroclor-1254	2.1	1.0	

Two (2) subsurface soil samples (10.0 - 11.0 feet bgs) and one (1) duplicate sample were collected from the two (2) soil borings and submitted for BTEX, PAH, and PCB analyses. BTEX, PCB, and PAH concentrations were not detected.

Former ART and Former Drum Storage Area #2

Three (3) surface soil samples (0.0 - 1.0 foot bgs) and six (6) subsurface soil samples (three [3] 2.0 - 3.0 feet bgs and three [3] 3.0 - 4.0 feet bgs) were collected from three (3) soil borings and submitted for PCB analysis. PCB concentrations were non-detect or detected below the CAL except for the following:

Sample Number	Depth (ft)	Analyte Result (mg/kg)		CAL (mg/kg)
LEB-ASB018-40001	0 - 1		48	
LEB-ASB018-70001	2 - 3	PCB-Aroclor-1254	3.3	1.0
LEB-ASB018-70002	3 - 4	FCD-A10C101-1234	1.1	1.0
LEB-ASB019-40001	SB019-40001 0 - 1		4.7	

PRA #7 - 1.057-Gallon Basement Water UT

One (1) surface soil sample (0.0 - 1.0 foot bgs) and two (2) subsurface soil samples (9.0 - 10.0 feet bgs) and 10.0 - 11.0 feet bgs) were collected from two (2) soil borings and one (1) surface location, and submitted for PCB and BTEX analyses. BTEX and PCB concentrations were not detected.

PRA #8 - Auxiliary Building Septic System Leachfield

Five (5) subsurface soil samples (3.0 - 4.0 feet bgs) and one (1) duplicate sample were collected from five (5) soil borings and submitted for BTEX, PCB, PAH and Table 1 Metals analyses. BTEX and PAH concentrations were not detected. PCB and Table 1 Metals concentrations were non-detect or detected below the CALs and/or background except for the following:

Sample Number	Depth (ft)	Analyte	Result (mg/kg)	CAL (mg/kg)	Background (mg/kg)
LEB-ASB022-71001	3 - 4	Arsenic	12.9 J-	0.43	12.6

PRA #9 Office Trailer Septic System Leachfield

Two (2) subsurface soil samples (3.0 - 4.0 feet bgs) were collected from two (2) soil borings and submitted for Table 1 Metals, BTEX, PCBs, and PAH analyses. BTEX, PAH, and PCB concentrations were not detected. Table 1 Metals concentrations were non-detect or detected below the CALs and/or background except for the following:

Sample Number	Depth (ft)	Analyte	Result (mg/kg)	CAL (mg/kg)	Background (mg/kg)
LEB-ASB028-70001	3 - 4	Arsenic	12.7 J	0.43	12.6

PRA #12 - Drum Storage Area #1, ESD Blowdown A, and Fuel Gas Drip

Two (2) surface soil samples (0.0 - 1.0 foot bgs) and two (2) subsurface soil samples (2.0 - 3.0 feet bgs) and 3.0 - 4.0 feet bgs) were collected from one (1) soil boring and two (2) surface soil locations, and submitted for BTEX and PCB analyses. BTEX and PCB concentrations were not detected.

One (1) surface soil sample (0.0 - 0.5 foot bgs) was collected and submitted for PCB analysis. PCB concentrations were not detected.

PRA #13 - ESD Blowdown B

One (1) surface soil sample (0.0 - 0.5 foot bgs) was collected and submitted for PCB analysis. PCB concentrations were non-detect or detected below the CAL.

PRA #14 - CAS, Auxiliary Building and Auxiliary Building Drainage Pit

Two (2) surface soil samples (0.0 - 1.0 foot bgs) and four (4) subsurface soil samples (two [2] 2.0 - 3.0 feet bgs and two [2] 3.0 - 4.0 feet bgs) were collected from two (2) soil borings and submitted for PCB analysis. PCB concentrations were non-detect or detected below the CAL with the exception of the following:

Sample Number	Depth (ft)	Analyte	Result (mg/kg)	CAL (mg/kg)	
LEB-ASB030-40001	0 - 1	PCB Aroclor-1254	94	1.0	

PRA #15 - ART

One (1) surface soil sample (0.0 - 1.0 foot bgs) was collected and submitted for Table 1 VOC and PCB analyses. Table 1 VOC concentrations were not detected. PCB concentrations were non-detect or detected below the CAL.

PRA #16 - Discharge Gas Drip and Drum Storage Area #2

One (1) surface soil sample (0.0 - 1.0 foot bgs) and two (2) subsurface soil samples (2.0 - 3.0 feet bgs and 3.0 - 4.0 feet bgs) were collected from one (1) soil boring and submitted for BTEX and PCB analyses. BTEX and PCB concentrations were not detected.

One (1) surface soil sample (0.0 - 1.0 foot bgs) and one (1) duplicate sample were collected and submitted for BTEX, PCB, and PAH analyses. BTEX, PCB, and PAH concentrations were not detected.

PRA #17 - Drum Storage Area #4

One (1) surface soil sample (0.0 - 1.0 foot bgs) and was collected and submitted for BTEX, PCB, and PAH analyses. PAH concentrations were not detected. BTEX and PCB concentrations were non-detect or detected below the CALs.

PRA #18 - Drum Storage Area #5, Natural Gas Compressor Engine #1 Structure, and Fin Fan

Three (3) surface soil samples (0.0 - 1.0 foot bgs) and six (6) subsurface soil samples (three [3] 2.0 - 3.0 feet bgs and three [3] 3.0 - 4.0 feet bgs) were collected from three (3) soil borings and submitted for BTEX and PCB analyses. BTEX concentrations were not detected. PCB concentrations were non-detect or detected below the CAL.

PRA #19 - Former Drum Storage Area #1

One (1) surface soil sample (0.0 - 1.0 foot bgs) was collected and submitted for analyses of Table 1 list of constituents. VOC and PCB concentrations were not detected. PAH and Table 1 Metals concentrations were non-detect or detected below the CALs and/or background.

PRA #20 - Suction Gas Filter and Suction Gas Drip

Two (2) surface soil samples (0.0 - 1.0 foot bgs) and five (5) subsurface soil samples (two [2] 2.0 - 3.0 feet bgs, two [2] 3.0 - 4.0 feet bgs, and one [1] 10.0 - 11.0 feet bgs) were collected from two (2) soil borings and submitted for BTEX and PCB analyses. BTEX concentrations were not detected. PCB concentrations were non-detect or detected below the CAL except for the following:

Sample Number	Depth (ft)	Analyte	Result (mg/kg)	CAL (mg/kg)	
LEB-ASB037-40001	0 - 1	PCB Aroclor-1254	1.2	1.0	

PRA #21 - NGL Compressor/Cooling Unit

Three (3) surface soil samples (0.0 - 1.0 foot bgs), one (1) duplicate sample, and six (6) subsurface soil samples (three [3] 2.0 - 3.0 feet bgs and three [3] 3.0 - 4.0 feet bgs) were collected from three (3) soil borings and submitted for Arsenic, BTEX, and PCB analyses. PCB concentrations were not detected. BTEX concentrations were non-detect or detected below the CALs. Arsenic concentrations were detected below background except for the following:

Sample Number	Depth (ft) Analyte		Result (mg/kg)	CAL (mg/kg)	Background (mg/kg)
LEB-ASB038-40001	0 - 1	Arsenic	14.3 J-	0.43	12.6

PRA #25 - NGL Process Unit

Four (4) surface soil samples (0.0 - 1.0 foot bgs), one (1) duplicate sample and eight (8) subsurface soil samples (four [4] 2.0 - 3.0 feet bgs and four [4] 3.0 - 4.0 feet bgs) were collected from four (4) soil borings and submitted for Arsenic, BTEX, and PCB analyses. PCB concentrations were not detected. BTEX and Arsenic concentrations were non-detect or detected below the CALs and/or background.

PRA #27 - Other Stained Area

Three (3) subsurface soil samples (two [2] 3.0 - 4.0 feet bgs and one [1] 9.0 - 10.0 feet bgs) were collected from two (2) soil borings and submitted for Table 1 analyses. PCB and PAH concentrations were not detected. Table 1 VOC and Table 1 Metal concentrations were non-detect or detected below the CALs and/or background.

4.3.4 Surface Water and Sediment Sample Results

PRA #10 - Unnamed Tributary to Groundhog Creek

Two (2) sediment samples (0.0 - 1.0 foot bgs) were collected and submitted for analyses of Table 1 list of constituents. Table 1 VOC, PAH, and PCB concentrations were not detected. Table 1 Metals concentrations were non-detect or detected below the CALs and/or background.

One (1) surface water sample was collected and submitted for analyses of Table 1 list of constituents. The Table 1 list of constituents were not detected.

PRA #11 - Groundhog Creek

Four (4) sediment samples (0.0 - 1.0 foot bgs) and one (1) duplicate sample were collected and submitted for analyses of Table 1 list of constituents. Table 1 VOC and PAH concentrations were not detected. PCB concentrations were non-detect or detected below the CAL. Table 1 Metals concentrations were non-detect or detected below the CALs and/or background except for the following:

Sample Number	Depth (ft)	Analyte	Result (mg/kg)	CAL (mg/kg)	Background (mg/kg)
LEB-ASD003-30001	0 - 1	- 1 Arsenic	12.9	0.43	12.6
LEB-ASD005-30001	0 - 1	Aiselle	13.4	0.43	12.0

Arsenic was detected in duplicate sample LEB-ASD005-31001 at a concentration of 9.0 mg/kg. The average Arsenic concentration between the original sample and duplicate sample is 11.2 mg/kg, which is below the background concentration of 12.6 mg/kg.

Four (4) surface water samples and one (1) duplicate sample were collected and submitted for analyses of Table 1 list of constituents. Table 1 list of constituent concentrations were not detected.

PRA #26 - Former Cooling Water Pond

One (1) sediment sample (0.0 - 1.0 foot bgs) was collected and submitted for analyses of the Table 1 list of constituents. Table 1 VOC, PCB, and PAH concentrations were not detected. Table 1 Metals concentrations were non-detect or detected below the CALs and/or background.

4.3.5 Miscellaneous Liquid/Sump Water

PRA #4 - 4,200-Gallon Basement Water AT

One (1) miscellaneous liquid sample was collected and submitted for PCB analysis. PCB concentrations were non-detect or detected below the CAL.

PRA #7 - 1,057-Gallon Basement Water UT

One (1) miscellaneous liquid sample was collected and submitted for PCB analysis. PCB concentrations were not detected.

PRA #14 - CAS, Auxiliary Building, Auxiliary Building Drainage Pit

One (1) sump water sample was collected and submitted for PCB analysis. PCB concentrations were non-detect or detected below the CAL.

PRA #22 - 7,000-Gallon Cistern

One (1) miscellaneous liquid sample and one (1) duplicate sample were collected and submitted for PCB analysis. PCB concentrations were not detected.

4.3.6 Groundwater Sample Results

PRA #23 - Water Well

Two (2) groundwater samples and two (2) duplicate samples were collected and submitted for analyses of the Table 1 list of constituents. A portion of the sample was field filtered for analysis of dissolved phase metals. Table 1 VOC, PAH, and PCB concentrations were not detected. Table 1

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Table 4-3
Summary of Analytical Results

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		PRA Description	BACKGROUNDS						
		Sample Type	Normal Sample						
		Sample Id	LEB-ASB045-70001		LEB-ASB046-40001		LEB-ASB048-40001	LEB-ASB048-40001	
		Depth - ft bgs	oth - ft bgs 3 - 4 0 - 1		0 - 1				
		Collected Date	10/13/99		10/14/99		10/13/99		
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories	
		Sample Collector	SE Technologies, Inc	c .	SE Technologies, In	c.	SE Technologies, In	c.	
		Result Units	MG/KG		MG/KG		MG/KG		
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*	
VOA	BENZENE	12	ND		ND				
	TOLUENE	16000	ND		ND				
	ETHYLBENZENE	7800	ND		ND				
	XYLENE (TOTAL)	160000	ND		ND				
	METHYLENE CHLORIDE	85	ND		ND				
	ETHYLENE GLYCOL	160000							
BNA	PHENANTHRENE	23000	ND		ND				
	FLUORANTHENE	3100	ND		ND				
	PYRENE	2300	ND		ND				
P/PCB	AROCLOR-1254	1	ND		ND				
	AROCLOR-1260	1	ND		ND				
METAL	BARIUM, TOTAL	5500	134		86.4 J-				
	BERYLLIUM, TOTAL	160	ND		ND				
	CHROMIUM, TOTAL	230	18.3		22.2				
	LEAD, TOTAL	400	ND		ND				
	NICKEL, TOTAL	1600	19.4		19.2				
	ARSENIC, TOTAL	.43	6.4	X	7.6	X	4.0	X	

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB049-40001		LEB-ASB050-40001		LEB-ASB051-40001	
		Depth - ft bgs			0 - 1		0 - 1	
		Collected Date	10/13/99		10/13/99		10/13/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	2.	SE Technologies, In	ıc.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1						
	AROCLOR-1260	1						
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43	6.2	X	5.7	X	6.5	X

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB052-40001		LEB-ASB053-40001		LEB-ASB054-40001	
		Depth - ft bgs	0 - 1		0 - 1		0 - 1	
		Collected Date	lected Date 10/13/99 10/13/		10/13/99		10/13/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	2.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1						
	AROCLOR-1260	1						
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43	7.4	X	7.2	X	5.1	X

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		1101						
		PRA Description			RANDOM PCBS			
		Sample Type			Normal Sample			
		Sample Id	LEB-ASB056-70001		LEB-SS056-40001		LEB-SS057-40001	
		Depth - ft bgs	10 - 11		0 - 1		0 - 1	
		Collected Date	10/13/99		10/11/99		10/11/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	2.	SE Technologies, In	c.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND					
	TOLUENE	16000	ND					
	ETHYLBENZENE	7800	ND					
	XYLENE (TOTAL)	160000	ND					
	METHYLENE CHLORIDE	85	ND					
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND					
	FLUORANTHENE	3100	ND					
	PYRENE	2300	ND					
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		0.056	
METAL	BARIUM, TOTAL	5500	229					
	BERYLLIUM, TOTAL	160	1.2 J-					<u> </u>
	CHROMIUM, TOTAL	230	19.6 J-					<u> </u>
	LEAD, TOTAL	400	ND					<u> </u>
	NICKEL, TOTAL	1600	24.9 J-					
	ARSENIC, TOTAL	.43	6.7 J-	X				

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-SS058-40001		LEB-SS059-40001		LEB-SS060-40001	
		Depth - ft bgs	0 - 1		0 - 1		0 - 1	
		Collected Date	10/11/99		10/11/99		10/11/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	2.	SE Technologies, In	ıc.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		TKA			1			
		PRA Description			FRMR 2912-GAL P	PIPELINE LIC	QUIDS AT	
		Sample Type			Normal Sample			
		Sample Id	LEB-SS061-40001		LEB-ASB001-40001		LEB-ASB001-70001	i.
		Depth - ft bgs	0 - 1		0 - 1		2 - 3	
		Collected Date	10/11/99		10/13/99		10/13/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	ε.	SE Technologies, In	c.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12			0.14 J		0.43 J	
	TOLUENE	16000			0.60 J		0.73 J	
	ETHYLBENZENE	7800			0.80 J		1.0 J	
	XYLENE (TOTAL)	160000			5.6 J		7.6 J	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000			ND		ND	
	FLUORANTHENE	3100			ND		ND	
	PYRENE	2300			ND		ND	
P/PCB	AROCLOR-1254	1	0.26		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						1
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						1

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		1101					~	
		PRA Description					25-GAL WASTE O	IL AT
		Sample Type					Field Duplicate (Re	p)
		Sample Id	LEB-ASB002-40001		LEB-ASB002-70001		LEB-ASB003-41001	
		Depth - ft bgs	0 - 1		2 - 3		0 - 1	
		Collected Date	10/13/99		10/13/99		10/15/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	2.	SE Technologies, In	с.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		0.008	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000					ND	
	FLUORANTHENE	3100					ND	
	PYRENE	2300					ND	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400					27.2	
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

2

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description						
		Sample Type	Normal Sample					
		Sample Id	LEB-ASB003-40001		LEB-ASB003-70001		LEB-ASB003-70002	
		Depth - ft bgs	0 - 1		2 - 3		3 - 4	
		Collected Date	10/15/99		10/15/99		10/15/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	c.	SE Technologies, In	с.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400	ND		ND		ND	
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA	3					
		PRA Description	PROCESS AREA					
		Sample Type	Normal Sample					
		Sample Id	LEB-ASB004-40001		LEB-ASB004-70001		LEB-ASB004-70002	
		Depth - ft bgs	0 - 1		2 - 3		3 - 4	
		Collected Date	10/14/99		10/14/99		10/14/99	
		Laboratory	Severn Trent Labora	itories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	•	SE Technologies, In	c .	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	0.005		ND		ND	
	TOLUENE	16000	0.008		ND		ND	
	ETHYLBENZENE	7800	0.011		ND		ND	
	XYLENE (TOTAL)	160000	0.023		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43	5.4 J-	X	5.8 J-	X	7.6 J-	X

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		1101						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB005-40001		LEB-ASB005-70001		LEB-ASB005-70002	!
		Depth - ft bgs	0 - 1		2 - 3		3 - 4	
		Collected Date	10/14/99		10/14/99		10/14/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	с.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units M	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	0.007		ND		ND	
	XYLENE (TOTAL)	160000	0.047		0.006		ND	1
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000	ND		ND		ND	
BNA	PHENANTHRENE	23000	ND					
	FLUORANTHENE	3100	ND					
	PYRENE	2300	ND					
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						1
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						1
1	ARSENIC, TOTAL	.43	6.0 J-	X	6.9 J-	X	8.8 J-	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB006-70001		LEB-ASB006-70002	2	LEB-ASB007-70001	
		Depth - ft bgs	2 - 3		3 - 4		2 - 3	
		Collected Date	10/14/99		10/14/99		10/14/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	с.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		0.006	
	TOLUENE	16000	ND		ND		0.030	
	ETHYLBENZENE	7800	ND		ND		0.052	
	XYLENE (TOTAL)	160000	0.009		ND		0.25	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000					100 J	
BNA	PHENANTHRENE	23000					ND	
	FLUORANTHENE	3100					ND	
	PYRENE	2300					ND	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500					168	
	BERYLLIUM, TOTAL	160					ND	
	CHROMIUM, TOTAL	230					19.6	
	LEAD, TOTAL	400					ND	
	NICKEL, TOTAL	1600					18.9	
	ARSENIC, TOTAL	.43	4.5 J-	X	9.8 J-	X	3.9	X

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-SB008-70001		LEB-SB009-70001		LEB-SS001-40001	
		Depth - ft bgs	10 - 11		9 - 10		0 - 1	
		Collected Date	10/12/99		10/12/99		10/12/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	: .	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		0.030	
	XYLENE (TOTAL)	160000	ND		ND		0.15	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000					ND	
	FLUORANTHENE	3100					ND	
	PYRENE	2300					ND	
P/PCB	AROCLOR-1254	1	0.15		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						1
	ARSENIC, TOTAL	.43			5.9	X	4.9	X

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description						
		Sample Type						
		Sample Id	LEB-SS002-40001		LEB-SS003-40001		LEB-SS004-40001	
		Depth - ft bgs	0 - 1		0 - 1		0 - 1	
		Collected Date	10/12/99		10/12/99		10/12/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	с.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	0.044		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
P/PCB	AROCLOR-1254	1	ND		0.041		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500	130		134		68.2	
	BERYLLIUM, TOTAL	160	ND		ND		ND	
	CHROMIUM, TOTAL	230	18.6		16.4		13.0	
	LEAD, TOTAL	400	ND		ND		ND	
	NICKEL, TOTAL	1600	20.7		18.1		16.3	
	ARSENIC, TOTAL	.43	6.1	X	5.2	X	7.8	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description	4200-GAL BASEME	NT WATER	AT			
		Sample Type	Normal Sample					
		Sample Id	LEB-ASB010-40001		LEB-ASB010-70001		LEB-ASB010-70002	
		Depth - ft bgs	0 - 1		2 - 3		3 - 4	
		Collected Date	Collected Date 10/13/99		10/13/99		10/13/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	2.	SE Technologies, In	c.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

5

		PRA Description	1474-GAL PIPLNE	LIQ UT/2 100	00-GAL GLYCOL UT	TS/1000-GAL	OIL UT	
		Sample Type	Normal Sample					
		Sample Id	LEB-SB011-70001		LEB-SB012-70001		LEB-SB013-70001	
		Depth - ft bgs	10 - 11		10 - 11		10 - 11	
		Collected Date	10/12/99		10/12/99		10/12/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	c .	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND					
	FLUORANTHENE	3100	ND					
	PYRENE	2300	ND					
P/PCB	AROCLOR-1254	1	ND		0.19		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43	11.4	X	5.4	X	11.1	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-SB014-70001		LEB-SS005-40001		LEB-SS006-40001	
		Depth - ft bgs	10 - 11		0 - 1		0 - 1	
		Collected Date	10/12/99		10/12/99		10/12/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	ε.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000			ND		ND	
	FLUORANTHENE	3100			ND		ND	
	PYRENE	2300			ND		ND	
P/PCB	AROCLOR-1254	1	ND		0.059		0.089	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						1
	ARSENIC, TOTAL	.43	4.9	X	6.6	X	6.2	X

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description					FRMR 564-GAL N	EW OIL UT
		Sample Type					Field Duplicate (Re	p)
		Sample Id	LEB-SS007-40001		LEB-SS008-40001		LEB-SB015-41001	
		Depth - ft bgs	0 - 1		0 - 1		0 - 1	
		Collected Date	10/12/99		10/12/99		10/12/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	ratories	Severn Trent Labor	ratories
		Sample Collector	SE Technologies, Inc	:.	SE Technologies, In	ıc.	SE Technologies, In	ic.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85					ND	
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
P/PCB	AROCLOR-1254	1	0.20		0.11		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500					126	1
	BERYLLIUM, TOTAL	160					1.2	1
	CHROMIUM, TOTAL	230					17.5	1
	LEAD, TOTAL	400					ND	
	NICKEL, TOTAL	1600					18.7	
	ARSENIC, TOTAL	.43	6.5	X	6.2	X	5.3	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type			Normal Sample			
		Sample Id	LEB-SB015-71001		LEB-ASB017-40001		LEB-ASB017-70001	
		Depth - ft bgs	10 - 11		0 - 1		2 - 3	
		Collected Date	10/12/99		10/14/99		10/14/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	c .	SE Technologies, In	с.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND					
	TOLUENE	16000	ND					
	ETHYLBENZENE	7800	ND					
	XYLENE (TOTAL)	160000	ND					
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1			0.24		0.11	
	AROCLOR-1260	1			ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB017-70002		LEB-ASB018-40001		LEB-ASB018-70001	
		Depth - ft bgs	3 - 4		0 - 1		2 - 3	
		Collected Date	10/14/99		10/14/99		10/14/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	с.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	0.094		48	X	3.3	X
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB018-70002		LEB-ASB019-40001		LEB-ASB019-70001	
		Depth - ft bgs	3 - 4		0 - 1		2 - 3 10/13/99 Severn Trent Laboratories SE Technologies, Inc.	
		Collected Date	10/14/99		10/13/99			
		Laboratory	Severn Trent Labora	tories	Severn Trent Labora	atories		
		Sample Collector	SE Technologies, Inc.	,	SE Technologies, Inc	: .		
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	1.1	X	4.7	X	0.047	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB019-70002		LEB-SB015-40001		LEB-SB015-70001	
		Depth - ft bgs	3 - 4		0 - 1		10 - 11	
		Collected Date	10/13/99		10/12/99		10/12/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	с.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12			ND		ND	
	TOLUENE	16000			ND		ND	
	ETHYLBENZENE	7800			ND		ND	
	XYLENE (TOTAL)	160000			ND		ND	
	METHYLENE CHLORIDE	85			ND			
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000			ND		ND	
	FLUORANTHENE	3100			ND		ND	
	PYRENE	2300			ND		ND	
P/PCB	AROCLOR-1254	1	0.12		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500			116			
	BERYLLIUM, TOTAL	160			1.2			
	CHROMIUM, TOTAL	230			21.3			
	LEAD, TOTAL	400			ND			
	NICKEL, TOTAL	1600			22.3			
	ARSENIC, TOTAL	.43			7.3	X		

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description					1057-GAL BASEM	ENT WATER
		Sample Type					Normal Sample	
		Sample Id	LEB-SB016-40001		LEB-SB016-70001		LEB-SB020-70001	
		Depth - ft bgs	0 - 1		10 - 11		10 - 11	
		Collected Date	10/12/99		10/12/99		10/12/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	c .	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85	ND					
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND		ND			
	FLUORANTHENE	3100	ND		ND			
	PYRENE	2300	ND		ND			
P/PCB	AROCLOR-1254	1	2.1	X	ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500	117					
	BERYLLIUM, TOTAL	160	ND					
	CHROMIUM, TOTAL	230	13.8					
	LEAD, TOTAL	400	ND					
	NICKEL, TOTAL	1600	17.8					
	ARSENIC, TOTAL	.43	5.2	X				

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description	JT				AUX. BUILDING S	EPTIC SYSTI
		Sample Type					Field Duplicate (Re	p)
		Sample Id	LEB-SB021-70001		LEB-SS009-40001		LEB-ASB022-71001	
		Depth - ft bgs	9 - 10		0 - 1		3 - 4	
		Collected Date	10/12/99		10/12/99		10/13/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	e .	SE Technologies, In	ıc.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000					ND	
	FLUORANTHENE	3100					ND	
	PYRENE	2300					ND	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500					182	
	BERYLLIUM, TOTAL	160					1.7 J-	
	CHROMIUM, TOTAL	230					22.6 J-	
	LEAD, TOTAL	400					ND	
	NICKEL, TOTAL	1600					24.7 J-	
	ARSENIC, TOTAL	.43					12.9 J-	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description	M LEACHFIELD					
		Sample Type	Normal Sample					
		Sample Id	LEB-ASB022-70001		LEB-ASB023-70001		LEB-ASB024-70001	
		Depth - ft bgs	3 - 4		3 - 4		3 - 4	
		Collected Date	10/13/99		10/13/99		10/13/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	2.	SE Technologies, In	ic.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500	168		499		204	
	BERYLLIUM, TOTAL	160	1.5 J-		1.6		1.3 J-	
	CHROMIUM, TOTAL	230	20.8 J-		16.8		18.3 J-	
	LEAD, TOTAL	400	ND		ND		ND	
	NICKEL, TOTAL	1600	23.9 J-		37.4 J-		25.2 J-	
]	ARSENIC, TOTAL	.43	9.1 J-	X	11.7	X	6.2 J-	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description					OFFICE TRAILER	SEPTIC SY
		Sample Type					Normal Sample	
		Sample Id	LEB-ASB025-70001		LEB-ASB026-70001		LEB-ASB027-70001	-
		Depth - ft bgs	3 - 4		3 - 4		3 - 4	
		Collected Date	10/13/99		10/13/99		10/13/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	c.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
P/PCB	AROCLOR-1254	1	ND		0.073		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500	169		122		83.4	
	BERYLLIUM, TOTAL	160	ND		ND		ND	
	CHROMIUM, TOTAL	230	16.9 J-		18.3 J-		19.3 J-	
	LEAD, TOTAL	400	ND		ND		ND	
	NICKEL, TOTAL	1600	23.4 J-		16.7 J-		20.5	
	ARSENIC, TOTAL	.43	5.6 J-	X	4.5 J-	X	5.6 J-	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description	LEACHFIELD		UNNAMED TRIBU	TARY TO G	ROUNDHOG CREEK	K
		Sample Type			Normal Sample			
		Sample Id	LEB-ASB028-70001		LEB-SD001-30001		LEB-SD002-30001	
		Depth - ft bgs	3 - 4		0 - 1		0 - 1	
		Collected Date	10/13/99		10/11/99		10/11/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	c .	SE Technologies, In	ıc.	SE Technologies, In	ic.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85			ND		ND	
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500	128		139 J-		124 J-	
	BERYLLIUM, TOTAL	160	1.7 J-		ND		1.3	
	CHROMIUM, TOTAL	230	27.6 J-		21.0		19.6	
	LEAD, TOTAL	400	ND		ND		ND	
	NICKEL, TOTAL	1600	28.3 J-		24.5		23.1	
	ARSENIC, TOTAL	.43	12.7 J-	X	6.8	X	7.2	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

11

PRA

		PRA Description	GROUNDHOG CRI	EEK				
		Sample Type	Field Duplicate (Rep)	Normal Sample			
		Sample Id	LEB-SD005-31001		LEB-SD003-30001		LEB-SD004-30001 0 - 1 10/11/99 Severn Trent Laborat SE Technologies, Inc. MG/KG Result Flag ND	
		Depth - ft bgs	0 - 1		0 - 1			
		Collected Date	10/11/99		10/11/99		10/11/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	: .	SE Technologies, In	с.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85	ND		ND		ND	
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND		ND		ND	
	FLUORANTHENE	3100	ND		ND		ND	
	PYRENE	2300	ND		ND		ND	
P/PCB	AROCLOR-1254	1	0.11 J		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500	105 J-		178 J-		207 J-	
	BERYLLIUM, TOTAL	160	ND		1.5		1.5	
	CHROMIUM, TOTAL	230	22.0		18.5		22.4	
	LEAD, TOTAL	400	ND		23.6		ND	
	NICKEL, TOTAL	1600	20.8		24.0		25.1	
	ARSENIC, TOTAL	.43	9.0	X	12.9	X	10.6	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description					DRUM STOR. ARE	A #1, ESD BI
		Sample Type					Normal Sample	
		Sample Id	LEB-SD005-30001		LEB-SD006-30001		LEB-ASB029-40001	
		Depth - ft bgs	0 - 1		0 - 1		0 - 1	
		Collected Date	10/11/99		10/11/99		10/13/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	с.	SE Technologies, In	ic.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85	ND		ND			
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND		ND			
	FLUORANTHENE	3100	ND		ND			
	PYRENE	2300	ND		ND			
P/PCB	AROCLOR-1254	1	0.20 J		0.86		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500	139 J-		196 J-			
	BERYLLIUM, TOTAL	160	1.5		1.6			
	CHROMIUM, TOTAL	230	21.5		21.0			
	LEAD, TOTAL	400	ND		28.6			
	NICKEL, TOTAL	1600	25.2		23.2			
	ARSENIC, TOTAL	.43	13.4	X	10.4	X		

Notes:

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

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^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description	OWDOWN A					
		Sample Type						
		Sample Id	LEB-ASB029-70001		LEB-ASB029-70002	}	LEB-SS010-40001	
		Depth - ft bgs	2 - 3		3 - 4		0 - 1	
		Collected Date	10/13/99		10/13/99		10/12/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	·	SE Technologies, In	с.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

13

		PRA Description			ESD BLOWDOWN	В	CAS AUX. BUILDI	NG
		Sample Type			Normal Sample		Normal Sample	
		Sample Id	LEB-SS011-40001		LEB-SS012-40001		LEB-ASB030-40001	I
		Depth - ft bgs	0 - 0.5		0 - 0.5		0 - 1	
		Collected Date	10/12/99		10/12/99		10/13/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc		SE Technologies, In	с.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		0.29		94	X
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB030-70001		LEB-ASB030-70002	2	LEB-ASB031-40001	
		Depth - ft bgs	2 - 3		3 - 4		0 - 1	
		Collected Date	10/13/99		10/13/99		10/13/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	: .	SE Technologies, In	c.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		0.068		0.084	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB031-70001		LEB-ASB031-70002	2	LEB-ASS017-40001	
		Depth - ft bgs	2 - 3		3 - 4		0 - 0	
		Collected Date	10/13/99		10/13/99		10/18/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	c.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		3.3	X
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASS018-40001		LEB-ASS019-40001		LEB-ASS020-40001	
		Depth - ft bgs	0 - 0		0 - 0		0 - 0	
		Collected Date	10/18/99		10/18/99		10/18/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector SE Technologies, Inc. SE Technologies		SE Technologies, In	Technologies, Inc.		c.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	0.13		5.5	X	4.8	X
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASS021-40001		LEB-ASS022-40001		LEB-ASS023-40001	
		Depth - ft bgs	0 - 0		0 - 0		0 - 0	
		Collected Date	10/20/99		10/20/99		10/20/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	c.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	0.067		0.12		0.10	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

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		PRA Description			ART		DISCHARGE GAS	DRIP/ DRUN
		Sample Type			Normal Sample		Field Duplicate (Re	p)
		Sample Id	LEB-ASS024-40001		LEB-SS027-40001		LEB-SS028-41001	
		Depth - ft bgs	0 - 0		0 - 0.5		0 - 1	
		Collected Date	10/20/99		10/12/99		0 - 1 10/12/99 Severn Trent Laboratories SE Technologies, Inc. MG/KG	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector SE Technologies, Inc. SE Technologies, Inc.		c.	SE Technologies, In	c.		
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12			ND		ND	
	TOLUENE	16000			ND		ND	
	ETHYLBENZENE	7800			ND		ND	
	XYLENE (TOTAL)	160000			ND		ND	
	METHYLENE CHLORIDE	85			ND			
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000					ND	
	FLUORANTHENE	3100					ND	
	PYRENE	2300					ND	
P/PCB	AROCLOR-1254	1	ND		0.19		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						1
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

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^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		IKA						
		PRA Description	STOR. AREA #2					
		Sample Type	Normal Sample					
		Sample Id	LEB-ASB032-40001		LEB-ASB032-70001	3 - 4	LEB-ASB032-70002	
		Depth - ft bgs	0 - 1		2 - 3		3 - 4	
		Collected Date	10/13/99		10/13/99		10/13/99	
		Laboratory	Severn Trent Labora	itories	Severn Trent Labor	atories	10/13/99 Severn Trent Laboratories SE Technologies, Inc. MG/KG	atories
		Sample Collector	SE Technologies, Inc		SE Technologies, In	с.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

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		1141			- /		10	
		PRA Description			DRUM STORAGE	AREA #4	DRUM STOR ARE	A #5/ NATUR
		Sample Type			Normal Sample		Normal Sample	
		Sample Id	LEB-SS028-40001		LEB-SS029-40001		LEB-ASB033-40001 0 - 1 10/14/99 Severn Trent Laboratories SE Technologies, Inc. MG/KG	
		Depth - ft bgs	0 - 1		0 - 1		0 - 1	
		Collected Date	10/12/99		10/12/99		10/14/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	c .	SE Technologies, In	c.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG	boratories	MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		0.007 J-		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000	ND		ND			
	FLUORANTHENE	3100	ND		ND			
	PYRENE	2300	ND		ND			
P/PCB	AROCLOR-1254	1	ND		0.66		0.31	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						1

Notes:

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

18

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description	L GAS COMP. ENG	INE				
		Sample Type						
		Sample Id	LEB-ASB033-70001		LEB-ASB033-70002		LEB-ASB034-40001	
		Depth - ft bgs	gs 2 - 3		3 - 4		0 - 1	
		Sample Id Depth - ft bgs Collected Date Laboratory Sample Collector SE	10/14/99		10/14/99		10/14/99	
		Laboratory	Severn Trent Labora	tories	Severn Trent Labor	10/14/99 tories Severn Trent Laboratories SE Technologies, Inc. MG/KG	atories	
	Analyte BENZENE TOLUENE ETHYLBENZENE XYLENE (TOTAL) METHYLENE CHLORIDE ETHYLENE GLYCOL PHENANTHRENE FLUORANTHENE PYRENE AROCLOR-1254 AROCLOR-1260 BARIUM, TOTAL BERYLLIUM, TOTAL CHROMIUM, TOTAL LEAD, TOTAL NICKEL, TOTAL	Sample Collector SE Technologies, Inc. SE T		SE Technologies, Inc	c .	SE Technologies, In	c.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		0.087	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA								
		PRA Description								
		Sample Type								
		Sample Id	LEB-ASB034-70001		LEB-ASB034-70002	2	LEB-ASB035-40001			
		Depth - ft bgs	2 - 3		3 - 4		0 - 1			
		Collected Date	10/14/99		10/14/99		10/14/99			
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	oratories		
		Sample Collector	SE Technologies, Inc	2.	SE Technologies, In	c.	SE Technologies, Inc.			
		Result Units	MG/KG		MG/KG		MG/KG			
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*		
VOA	BENZENE	12	ND		ND		ND			
	TOLUENE	16000	ND		ND		ND			
	ETHYLBENZENE	7800	ND		ND		ND			
	XYLENE (TOTAL)	160000	ND		ND		ND			
	METHYLENE CHLORIDE	85								
	ETHYLENE GLYCOL	160000								
BNA	PHENANTHRENE	23000								
	FLUORANTHENE	3100								
	PYRENE	2300								
P/PCB	AROCLOR-1254	1	ND		ND		0.041			
	AROCLOR-1260	1	ND		ND		ND			
METAL	BARIUM, TOTAL	5500								
	BERYLLIUM, TOTAL	160								
	CHROMIUM, TOTAL	230								
	LEAD, TOTAL	400								
	NICKEL, TOTAL	1600								
	ARSENIC, TOTAL	.43								

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB035-70001		LEB-ASB035-70002	2	LEB-ASS030-40001	
		Depth - ft bgs	2 - 3		3 - 4		0 - 0	
		Collected Date	10/14/99		10/14/99		10/19/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Lancaster Laborato	ories
		Sample Collector	SE Technologies, Inc.		SE Technologies, Inc.		SE Technologies, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND			
	TOLUENE	16000	ND		ND			
	ETHYLBENZENE	7800	ND		ND			
	XYLENE (TOTAL)	160000	ND		ND			
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description			FRMR DRUM STO	RAGE AREA	SUCTION GAS FII	TER & DRI
		Sample Type	Depth Company Compan		Normal Sample			
		Sample Id	LEB-ASS031-40001		LEB-SS032-40001		LEB-ASB036-40001	
		Depth - ft bgs	0 - 0		0 - 1		0 - 1	Laboratories ies, Inc. ag > CAL*
		Collected Date	10/19/99		10/12/99		10/13/99	
		Laboratory	Lancaster Laborator	ries	Severn Trent Labor	ratories	LEB-ASB036-40001 0 - 1 10/13/99 Severn Trent Laboratories SE Technologies, Inc. MG/KG	atories
		Sample Collector	SE Technologies, Inc	c .	SE Technologies, In	ıc.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12			ND		ND	
	TOLUENE	16000			ND		ND	
	ETHYLBENZENE	7800			ND		ND	
	XYLENE (TOTAL)	160000			ND		ND	
	METHYLENE CHLORIDE	85			ND			
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000			0.43 J			
	FLUORANTHENE	3100			0.50 J			
	PYRENE	2300			0.38 J			
P/PCB	AROCLOR-1254	1	ND		ND		0.31	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500			217			
	BERYLLIUM, TOTAL	160			ND			
	CHROMIUM, TOTAL	230			14.6			
	LEAD, TOTAL	400			62.7			
	NICKEL, TOTAL	1600			17.6			
1	ARSENIC, TOTAL	.43			5.1	X		

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB036-70001		LEB-ASB036-70002	2	LEB-SB037-40001	
		Depth - ft bgs	2 - 3		3 - 4		0 - 1	
		Collected Date	10/13/99		10/13/99	10/13/99		
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
	Analyte BENZENE TOLUENE ETHYLBENZENE XYLENE (TOTAL) METHYLENE CHLORIDE	Sample Collector	SE Technologies, Inc	с.	SE Technologies, In	c.	SE Technologies, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		1.2	X
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		TKA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-SB037-70001		LEB-SB037-70002		LEB-SB037-70003	
		Depth - ft bgs	2 - 3		3 - 4		10 - 11	
		Collected Date	10/12/99		10/12/99		10/12/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	e .	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG	10 - 11	MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description	NGL COMPRESSO	R/ COOLING	G UNIT			
		Sample Type	Sample Type					
		Sample Id	LEB-ASB039-41001		LEB-ASB038-40001		LEB-ASB038-70001	
		Depth - ft bgs	0 - 1		0 - 1		2 - 3	
		Collected Date	10/15/99		10/14/99		10/14/99	
		Laboratory	Severn Trent Labora	itories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc		SE Technologies, In	с.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43	4.5 J-	X	14.3 J-	X	10.3 J-	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB038-70002		LEB-ASB039-40001		LEB-ASB039-70001	
		Depth - ft bgs	3 - 4		0 - 1		2 - 3	
		Collected Date	10/14/99		10/14/99		10/14/99	
		PRA Description Sample Type Sample Id Depth - ft bgs Collected Date Laboratory Sample Collector Result Units Action Level 12 160000 7800 160000 23000 3100 23000 1 1 5500 160 230 400	Severn Trent Laboratories SE Technologies, Inc.		Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector			SE Technologies, Inc.		SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		0.007	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43	11.8 J-	X	6.0 J-	X	10.8 J-	X

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA							
		PRA Description							
		Sample Type							
		Sample Id	LEB-ASB039-70002		LEB-ASB040-40001		LEB-ASB040-70001	-	
		Depth - ft bgs	3 - 4		0 - 1		2 - 3		
		Collected Date	10/14/99		10/14/99		10/14/99		
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	boratories > CAL*	
		Sample Collector	-		SE Technologies, In	c.	SE Technologies, In	c.	
		Result Units			MG/KG		MG/KG		
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*	
VOA	BENZENE	12	ND		ND		ND		
	TOLUENE	16000	ND		ND		ND		
	ETHYLBENZENE	7800	ND		ND		ND		
	XYLENE (TOTAL)	160000	ND		ND		ND		
	METHYLENE CHLORIDE	85							
	ETHYLENE GLYCOL	160000							
BNA	PHENANTHRENE	23000							
	FLUORANTHENE	3100							
	PYRENE	2300							
P/PCB	AROCLOR-1254	1	ND		ND		ND		
	AROCLOR-1260	1	ND		ND		ND		
METAL	BARIUM, TOTAL	5500							
	BERYLLIUM, TOTAL	160							
	CHROMIUM, TOTAL	230							
	LEAD, TOTAL	400							
	NICKEL, TOTAL	1600							
	ARSENIC, TOTAL	.43	6.9 J-	X	6.8 J-	X	11.2 J-	X	

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

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		1101						
		PRA Description			COMPRESSOR BU	JILDING		
		Sample Type			Normal Sample			
		Sample Id	LEB-ASB040-70002		LEB-ASS033-40001		LEB-ASS034-40001	
		Depth - ft bgs	3 - 4		0 - 0		0 - 0	
		Collected Date	10/14/99		10/18/99		10/18/99	
		Laboratory	Severn Trent Labor	atories	Lancaster Laborato	ries	Lancaster Laborato	ries
		Sample Collector	SE Technologies, In	с.	SE Technologies, In	ic.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND					
	TOLUENE	16000	ND					
	ETHYLBENZENE	7800	ND					
	XYLENE (TOTAL)	160000	ND					
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		0.21		0.36	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						1
	LEAD, TOTAL	400						1
	NICKEL, TOTAL	1600						1
	ARSENIC, TOTAL	.43	9.4 J-	X				1

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASS035-40001		LEB-ASS036-40001		LEB-ASS037-40001	
		Depth - ft bgs	0 - 0		0 - 0		0 - 0	
		Collected Date	10/18/99		10/19/99		10/19/99	
		Laboratory	Lancaster Laborato	ries	Lancaster Laborato	ries	Lancaster Laborato	ries
		Sample Collector	SE Technologies, In	c.	SE Technologies, In	c.	SE Technologies, In	c.
				MG/KG				
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	0.43		0.18		0.18	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASS038-40001		LEB-ASS039-40001		LEB-ASS040-40001	
		Depth - ft bgs	0 - 0		0 - 0		0 - 0	
		Collected Date	10/18/99		10/18/99		10/18/99	
		Laboratory	Lancaster Laborato	ries	Lancaster Laborato	ries	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	с.	SE Technologies, In	ic.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	0.30		1.0		0.28	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						1
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						1
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASS041-40001		LEB-ASS042-40001		LEB-ASS043-40001	
		Depth - ft bgs	0 - 0		0 - 0		LEB-ASS043-40001 0 - 0 10/18/99 Lancaster Laboratories SE Technologies, Inc. MG/KG Result Flag > CA 0.52 ND	
		Collected Date 10/18/99 10/18/99			10/18/99			
		Laboratory	-		ories	Lancaster Laborato	ries	
		Sample Collector			SE Technologies, In	c.	SE Technologies, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	3.0	X	0.73		0.52	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASS044-40001		LEB-ASS045-40001		LEB-ASS046-40001	
		Depth - ft bgs	0 - 0		0 - 0			
		Collected Date	10/18/99		10/18/99			
		Laboratory	Lancaster Laborator	ries	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	2.	SE Technologies, Inc.		SE Technologies, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	9.1	X	26 J	X	2.5	X
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASS047-40001		LEB-ASS048-40001		LEB-ASS049-40001	
		Depth - ft bgs	0 - 0		0 - 0		LEB-ASS049-40001 0 - 0 10/18/99 Severn Trent Laboratories SE Technologies, Inc. MG/KG * Result Flag > CAL	
		Collected Date	10/18/99		10/18/99			
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc.		SE Technologies, In	c.	SE Technologies, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
_	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	4.9	X	1.2	X	0.14 J	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASS050-40001		LEB-ASS051-40001		LEB-ASS052-40001	
		Depth - ft bgs	0 - 0		0 - 0		0 - 0	
		Collected Date	10/18/99		10/18/99		10/18/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	с.	SE Technologies, In	ic.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	0.12 J		0.29 J		0.32 J	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						1
	ARSENIC, TOTAL	.43						

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description						
		Sample Type						
			LED 100052 40001		TED ACCOSA 40001		LED ACCOST 40001	
		Sample Id			LEB-ASS054-40001		LEB-ASS055-40001	
		1 &			0 - 0		0 - 0	
		Collected Date	10/18/99		10/18/99 Severn Trent Laboratories		10/18/99	
		Laboratory	LEB-ASS053-40001	Severn Trent Labor			atories	
		Sample Collector	SE Technologies, In	c.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12						
	TOLUENE	16000						
	ETHYLBENZENE	7800						
	XYLENE (TOTAL)	160000						
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	0.25 J		0.49		0.18 J	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

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PRA

		PRA Description	NGL PROCESS UN	IT				
		Sample Type	Field Duplicate (Rep)	Normal Sample			
		Sample Id	LEB-ASB044-41001		LEB-ASB041-40001	Laboratories gies, Inc. lag > CAL*)))	LEB-ASB041-70001	
		Laboratory Severn Sample Collector SE Tec Result Units MG/Ko Action Level Ro 12 16000 7800 160000	0 - 1		0 - 1		2 - 3	
		Collected Date	10/14/99		10/14/99		10/14/99	
		Laboratory	Severn Trent Labora	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, Inc	. .	SE Technologies, In	с.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43	4.8 J-	X	6.6 J-	X	6.0 J-	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB041-70002		LEB-ASB042-40001		LEB-ASB042-70001	i
		Depth - ft bgs	3 - 4		0 - 1		2 - 3	
		Collected Date	10/14/99		10/14/99		10/14/99	
		PRA Description Sample Type Sample Id LEB-ASB041-70002 LEB-ASB041-70002 Depth - ft bgs 3 - 4 0 - 1 Collected Date 10/14/99 10/14/99 Laboratory Severn Trent Laboratories Severn Sample Collector SE Technologies, Inc. SE Technologies, Inc. MG/KG	Severn Trent Laboratories		Severn Trent Labor	atories		
		Sample Collector	SE Technologies, Inc.		SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						1
	ARSENIC, TOTAL	.43	3.7 J-	X	5.0 J-	X	4.7 J-	X

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB042-70002		LEB-ASB043-40001		LEB-ASB043-70001	
		Depth - ft bgs			0 - 1		2 - 3	
		Collected Date	10/14/99		10/14/99		10/14/99 Severn Trent Laboratories SE Technologies, Inc. MG/KG	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	с.	SE Technologies, In	с.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG			
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		0.007	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43	5.9 J-	X	6.7 J-	X	4.5 J-	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	LEB-ASB043-70002		LEB-ASB044-40001		LEB-ASB044-70001	i
		Depth - ft bgs	3 - 4		0 - 1		2 - 3	
		Collected Date	10/14/99		10/14/99		10/14/99	
		PRA Description Sample Type LEB-ASB043-70002 LEB-ASB044-40001 Depth - ft bgs 3 - 4 0 - 1	atories	ries Severn Trent Laboratori				
		Sample Collector	SE Technologies, Inc.		SE Technologies, In	c.	SE Technologies, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85						
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000						
	FLUORANTHENE	3100						
	PYRENE	2300						
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						1
	ARSENIC, TOTAL	.43	4.5 J-	X	6.5 J-	X	4.6 J-	X

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA Description			FRMR COOLING	WATER PONI	OTHER STAINED	AREA
		Sample Type			Normal Sample		Normal Sample	
		Sample Id	LEB-ASB044-70002		LEB-SD007-30001		LEB-SB047-70001	
		Depth - ft bgs	3 - 4		0 - 1		3 - 4	
		Collected Date	10/14/99		10/11/99		10/12/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	с.	SE Technologies, In	c.	SE Technologies, In	c.
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND		ND	
	TOLUENE	16000	ND		ND		ND	
	ETHYLBENZENE	7800	ND		ND		ND	
	XYLENE (TOTAL)	160000	ND		ND		ND	
	METHYLENE CHLORIDE	85			ND		0.006	
	ETHYLENE GLYCOL	160000						
BNA	PHENANTHRENE	23000			ND		ND	
	FLUORANTHENE	3100			ND		ND	
	PYRENE	2300			ND		ND	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
	AROCLOR-1260	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500			163 J		158	
	BERYLLIUM, TOTAL	160			ND		1.3	
	CHROMIUM, TOTAL	230			25.5 J		17.0	
	LEAD, TOTAL	400			ND		ND	
	NICKEL, TOTAL	1600			30.2 J		19.6	
	ARSENIC, TOTAL	.43	4.1 J-	X	9.4 J	X	6.2	X

Notes:

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA				
		PRA Description				
		Sample Type				
		Sample Id	LEB-SB047-70002		LEB-SB055-70001	
		Depth - ft bgs	9 - 10		3 - 4	
		Collected Date	10/12/99		10/12/99	
		Laboratory	Severn Trent Labor	atories	Severn Trent Labor	atories
		Sample Collector	SE Technologies, In	с.	SE Technologies, In	с.
		Result Units	MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*
VOA	BENZENE	12	ND		ND	
	TOLUENE	16000	ND		ND	
	ETHYLBENZENE	7800	0.044		ND	
	XYLENE (TOTAL)	160000	ND		ND	
	METHYLENE CHLORIDE	85	ND		ND	
	ETHYLENE GLYCOL	160000				
BNA	PHENANTHRENE	23000	ND		ND	
	FLUORANTHENE	3100	ND		ND	
	PYRENE	2300	ND		ND	
P/PCB	AROCLOR-1254	1	ND		ND	
	AROCLOR-1260	1	ND		ND	
METAL	BARIUM, TOTAL	5500	373		101	
	BERYLLIUM, TOTAL	160	ND		ND	
	CHROMIUM, TOTAL	230	19.4		12.5	
	LEAD, TOTAL	400	ND		ND	
	NICKEL, TOTAL	1600	22.8		13.7	
	ARSENIC, TOTAL	.43	8.3	X	2.7	X

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA	4		7		10	
		PRA Description	4200-GAL BASEMEN	NT WATER A	1057-GAL BASEME	NT WATER I	UNNAMED TRIBUT	ARY TO GR
		Sample Type	Normal Sample		Normal Sample		Normal Sample	
		Sample Id	LEB-AML001-10001		LEB-AML002-10001		LEB-SW002-20001	
		Depth - ft bgs	0 - 0		0 - 0		0 - 0	
		Collected Date	10/18/99		10/18/99		10/11/99	
		Laboratory	Severn Trent Laborat	tories	Severn Trent Labora	tories	Severn Trent Laborat	tories
		Sample Collector	SE Technologies, Inc.		SE Technologies, Inc.		SE Technologies, Inc.	
		Result Units	UG/L		UG/L		UG/L	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
P/PCB	AROCLOR-1254	.5	0.21 J		ND		ND	
METAL	BARIUM, DISSOLVED	2000						
	BARIUM, TOTAL	2000					ND	
	CADMIUM, TOTAL	5					ND	
	CHROMIUM, TOTAL	100					ND	
	LEAD, TOTAL	15					ND	
	ARSENIC, TOTAL	50					ND	

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA	11					
		PRA Description	GROUNDHOG CRE	EK				
		Sample Type	Field Duplicate (Rep)		Normal Sample			
		Sample Id	LEB-SW005-21001		LEB-SW003-20001		LEB-SW004-20001	
		Depth - ft bgs	0 - 0		0 - 0		0 - 0	
		Collected Date	10/11/99		10/11/99		10/11/99	
		Laboratory	Severn Trent Laboratories		Severn Trent Laboratories		Severn Trent Laboratories	
		Sample Collector	SE Technologies, Inc.		SE Technologies, Inc.	•	SE Technologies, Inc.	•
		Result Units			UG/L	_		
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
P/PCB	AROCLOR-1254	.5	ND		ND		ND	
METAL	BARIUM, DISSOLVED	2000						
	BARIUM, TOTAL	2000	ND		ND		ND	
	CADMIUM, TOTAL	5	ND		ND		ND	
	CHROMIUM, TOTAL	100	ND		ND		ND	
	LEAD, TOTAL	15	ND		ND		ND	
	ARSENIC, TOTAL	50	ND		ND		ND	

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA					14		
		PRA Description					CAS AUX. BUILDI	NG	
		Sample Type					Normal Sample		
		Sample Id	LEB-SW005-20001		LEB-SW006-20001		LEB-ASW007-2000	1	
		Depth - ft bgs	0 - 0		0 - 0		0 - 0		
		Collected Date	Collected Date 10/11/99 10/11/99 Laboratory Severn Trent Laboratories Severn T				10/18/99		
		Laboratory				atories	Severn Trent Laboratories		
		Sample Collector	2		SE Technologies, In	SE Technologies, Inc.		SE Technologies, Inc.	
		Result Units			UG/L		UG/L		
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*	
P/PCB	AROCLOR-1254	.5	ND		ND		0.42		
METAL	BARIUM, DISSOLVED	2000							
	BARIUM, TOTAL	2000	ND		ND				
	CADMIUM, TOTAL	5	ND		ND				
	CHROMIUM, TOTAL	100	ND		ND				
	LEAD, TOTAL	15	ND		ND				
	ARSENIC, TOTAL	50	ND		ND				

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

Table 4-3
Summary of Analytical Results

		PRA	22				23	
		PRA Description	7000-GAL CISTERN	Ī			WATER WELL	
		Sample Type	Field Duplicate (Rep)	Normal Sample		Field Duplicate (Rep)
		Sample Id	LEB-AML004-11001		LEB-AML004-10001	[LEB-CML003-61001	
		Depth - ft bgs	0 - 0		0 - 0		0 - 0	
		Collected Date	10/18/99		10/18/99		03/08/00	
		Laboratory	Severn Trent Laboratories		Severn Trent Labora	atories	Severn Trent Laboratories	
		Sample Collector	SE Technologies, Inc.		SE Technologies, Inc	2.	SE Technologies, Inc.	
		Result Units	s UG/L		UG/L		UG/L	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
P/PCB	AROCLOR-1254	.5	ND		ND		ND	
METAL	BARIUM, DISSOLVED	2000						
	BARIUM, TOTAL	2000					600	
	CADMIUM, TOTAL	5					17.0	X
	CHROMIUM, TOTAL 1						ND	
	LEAD, TOTAL	15					28.0	X
	ARSENIC, TOTAL	50					18.0	

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

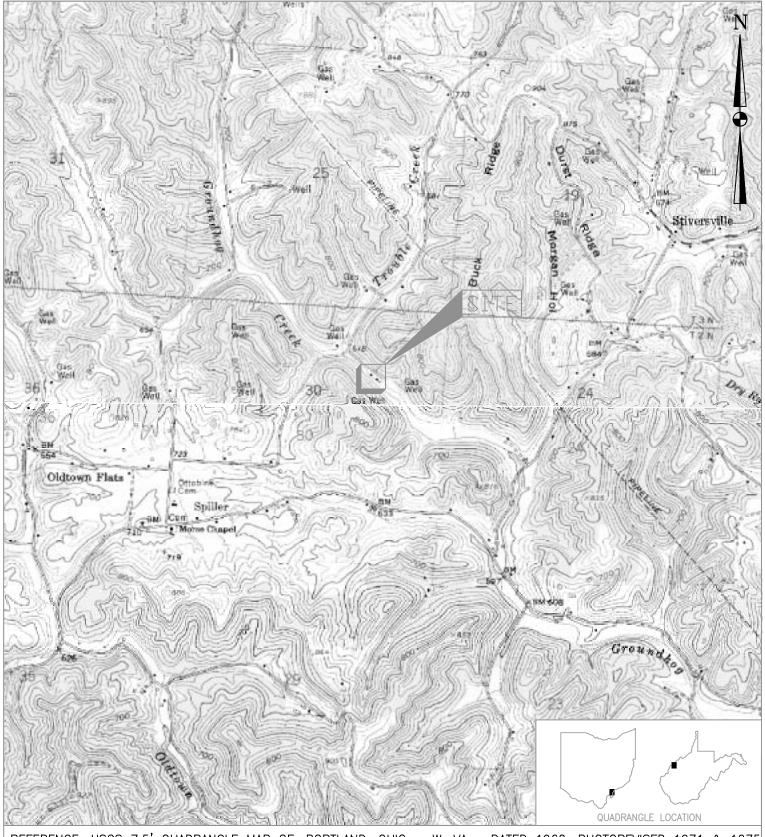
Table 4-3
Summary of Analytical Results

		PRA							
		PRA Description							
		Sample Type			Normal Sample				
		Sample Id	LEB-CML003-61002		LEB-CML003-60001		LEB-CML003-60002		
		Depth - ft bgs	0 - 0		0 - 0		0 - 0		
		Collected Date	03/08/00		03/08/00	03/08/00			
		Laboratory	Severn Trent Labora	tories	Severn Trent Laboratories		Severn Trent Laboratories		
		Sample Collector	SE Technologies, Inc.		SE Technologies, Inc	•	SE Technologies, Inc.		
		Result Units UG/L			UG/L		UG/L		
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*	
P/PCB	AROCLOR-1254	.5	ND		ND		ND		
METAL	BARIUM, DISSOLVED	2000	350				330		
	BARIUM, TOTAL	2000			600				
	CADMIUM, TOTAL	5			17.0	X			
	CHROMIUM, TOTAL	100			ND				
	LEAD, TOTAL	15			29.0	X			
	ARSENIC, TOTAL	50			14.0				

ND indicates Non-Detect

^{* &}quot;> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.



REFERENCE: USGS 7.5' QUADRANGLE MAP OF: PORTLAND, OHIO - W. VA.; DATED 1960, PHOTOREVISED 1971 & 1975 REFERENCE: USGS 7.5' QUADRANGLE MAP OF: RAVENSWOOD, W. VA. - OHIO; DATED 1960, PHOTOREVISED 1987

DRAWN BY PWG

DATE

CHECKED BY

SET JOB NO.

990031

SET DWG FILE

LEBm01.dwg

DRAWING SCALE

1"=2000'



COLUMBIA GAS TRANSMISSION

LEBANON COMPRESSOR STATION
MEIGS COUNTY, OHIO
SITE LOCATION MAP

FIGURE 1-1 REV.



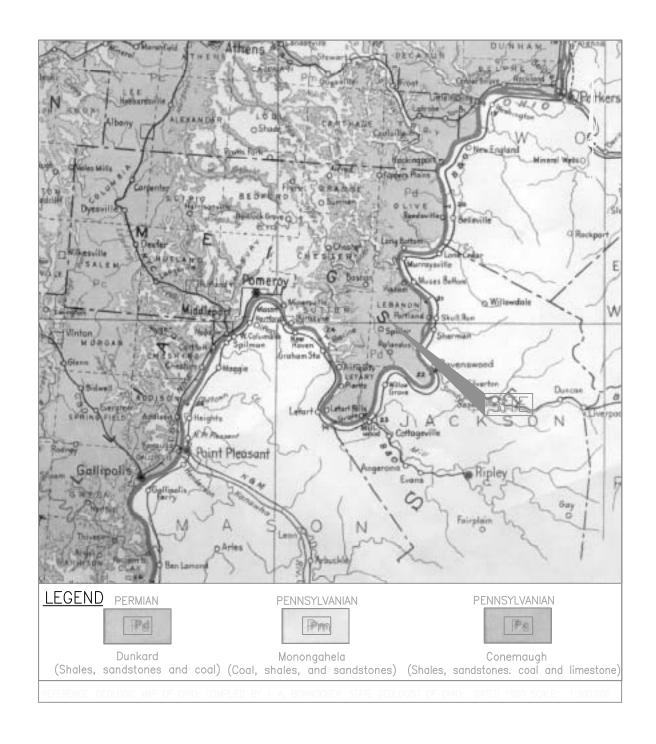
Mo
MOSHANNON SILT LOAM is a deep, well drained soil that occupies nearly level topography on stream flood plains. This soil formed in all deposits of recer
alluvium. Most areas of Moshannon sit loam are used for cropland and pasture. There are a few wooded and unmanaged areas. Frequent periods of
flooding, particulary from November to May of most years, is the major limitation of this soil for farming.

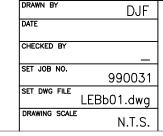
ASHAGRIN SILT LOAM is a deep, well drained soil that occupies nearly level topography on stream flood plains, it typically occurs on the highest positions on he flood plains. This soil formed in deposits of recent alluvium. Most areas of Chagrin silt loam are used for pasture. Some areas are utilized for cropland and there are a few wooded areas. Frequent periods of flooding, particulary from Navember to May of most years, is the major limitation of this soil for arming. This soil is a good source of topsoil.

UgC2,UgD,UgE

UPSHUR-GILPIN COMPLEX occupies strongly sloping (UgC2), moderately steep (UgD) and steep (UgD) topography on ridgetops and side slopes of uplands. The strongly sloping area of this soil complex are eroded and the present surface layer consists of mixed original surface and subsoil material. The deep, well drained Upshur soil formed in material we desthered from red shale bedrock. Glipin soil formed in material from siltstone and sandstone bedrock. This soil spicially occurs on the more steeply sloping areas of this complex. Most areas of this complex consist of about 50 percent Upshur soil, 30 percent Glipin soil and 20 percent other soils. Most areas of Upshur—Glipin complex are wooded. Some areas utilized for haydand and pasture. Slope on both soils, slow permeability, high shrink—swell potential and a slippage hazard on Upshur soil and depth to bedrock on Glipin soil are major limitations for many nonform uses of this complex.

REFERENCE: USDA SOIL CONSERVATION OF MEIGS COUNTY OHIO







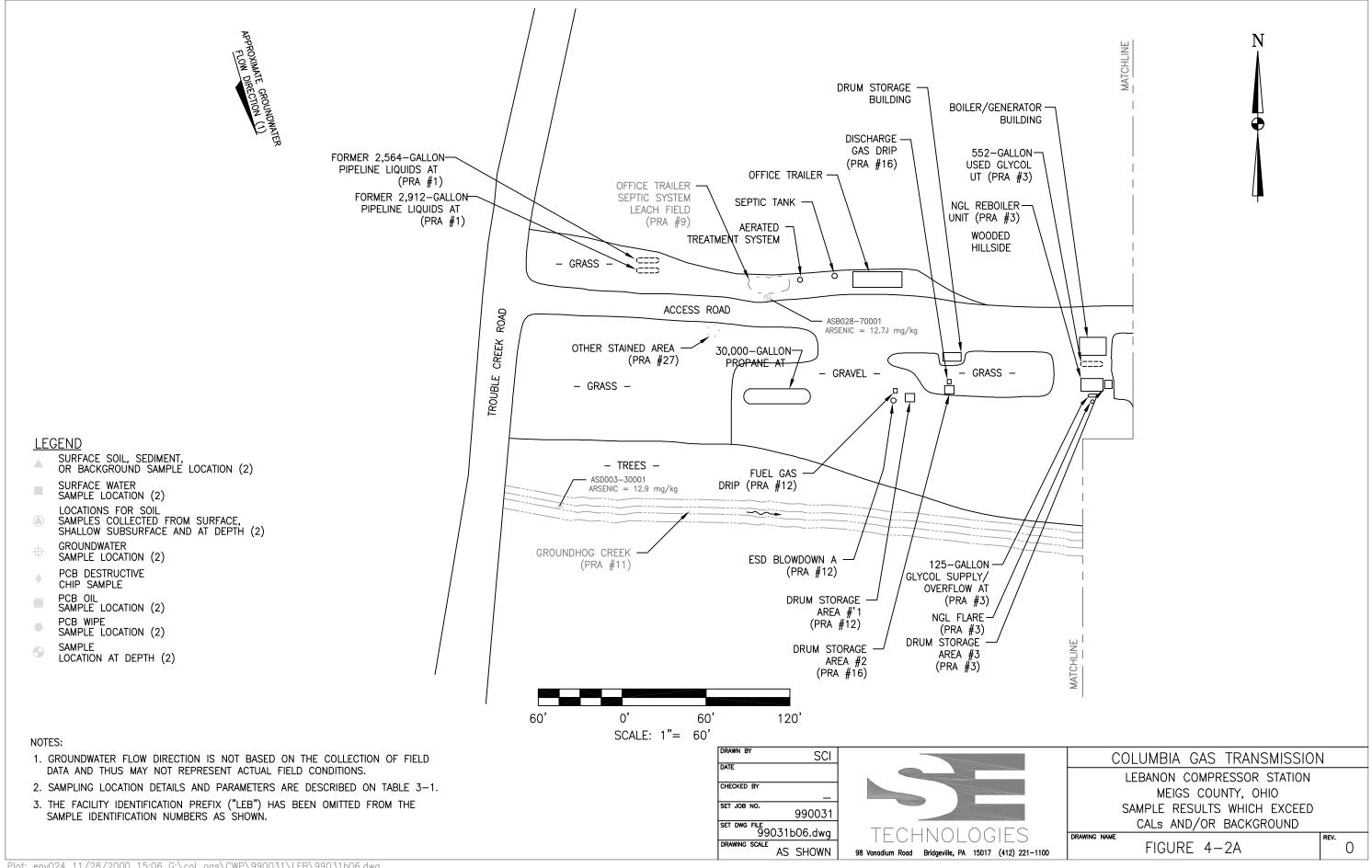
COLUMBIA GAS TRANSMISSION

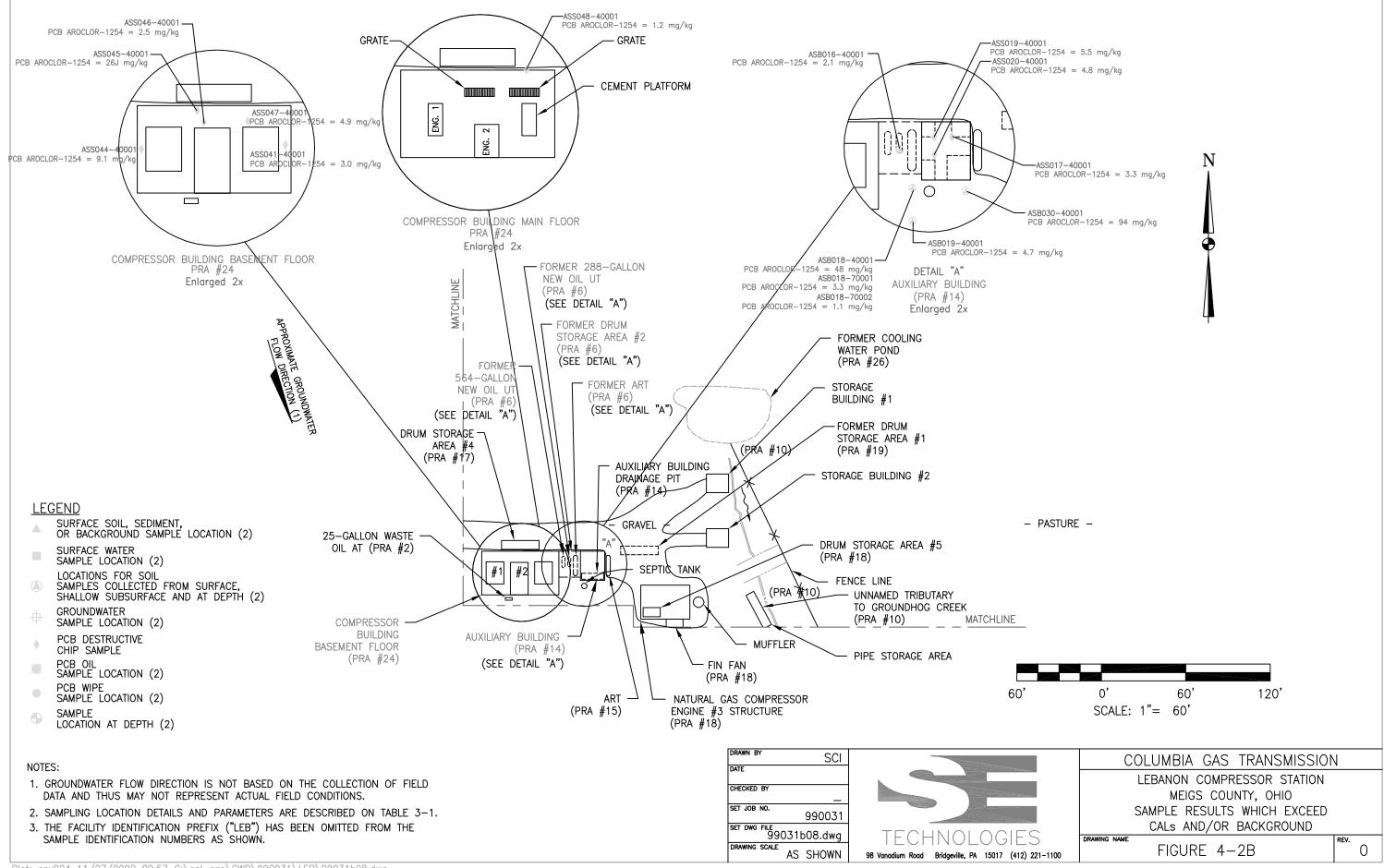
LEBANON COMPRESSOR STATION MEIGS COUNTY, OHIO SITE GEOLOGY AND SOILS MAP

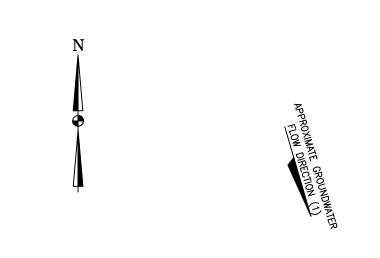
DRAWING NAME

FIGURE 2-1

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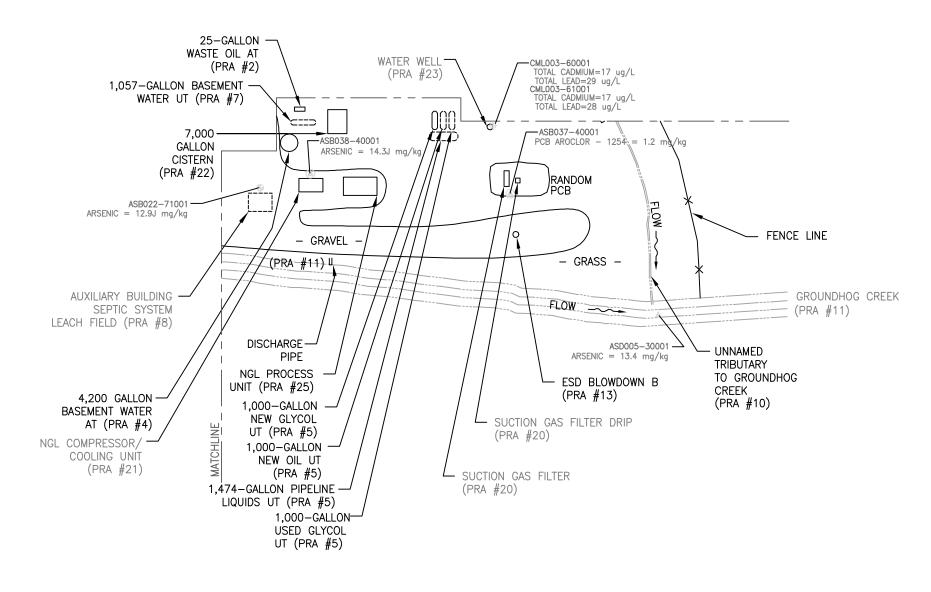


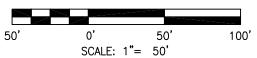


LEGEND

- SURFACE SOIL, SEDIMENT, OR BACKGROUND SAMPLE LOCATION (2)
- SURFACE WATER SAMPLE LOCATION (2)
- LOCATIONS FOR SOIL SAMPLES COLLECTED FROM SURFACE, SHALLOW SUBSURFACE AND AT DEPTH (2)
- GROUNDWATER SAMPLE LOCATION (2)
- PCB DESTRUCTIVE CHIP SAMPLE
- PCB_OIL SAMPLE_LOCATION (2)
- PCB WIPE SAMPLE LOCATION (2)
- SAMPLE LOCATION AT DEPTH (2)

- 1. GROUNDWATER FLOW DIRECTION IS NOT BASED ON THE COLLECTION OF FIELD DATA AND THUS MAY NOT REPRESENT ACTUAL FIELD CONDITIONS.
- 2. SAMPLING LOCATION DETAILS AND PARAMETERS ARE DESCRIBED ON TABLE 3-1.
- 3. THE FACILITY IDENTIFICATION PREFIX ("LEB") HAS BEEN OMITTED FROM THE SAMPLE IDENTIFICATION NUMBERS AS SHOWN.





DRAWN BY SCI	
DATE	
CHECKED BY —	
SET JOB NO. 990031	
SET DWG FILE 99031b07.dwg	TECHNOLOGIES
DRAWING SCALE AS SHOWN	98 Vanadium Road Bridgeville, PA 15017 (412) 221-1100

COLUMBIA GAS TRANSMISSION

LEBANON COMPRESSOR STATION MEIGS COUNTY, OHIO SAMPLE RESULTS WHICH EXCEED CALs AND/OR BACKGROUND

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FIGURE 4-2C

APPENDIX C SOIL BORING LOG FORMS



	PROJECT: Lebanon Compresson Station BORING NO.: ASBOOL PROJECT NO.: 990142-LEB DATE: 10-13-99 PRILLER: h:crosceps ELEVATION: NA										
PROJECT	: <u> </u>	<u>Liba</u>	705 CI	mpruss	er JIAV	ر د	PATE: 10-13-	99			
PROJECT	. NO": [—]	90	10142-	- CER	hienes	F	LEVATION: NA				
DRILLER:		(D) (*/	1.1	M. Crese	<u> </u>					
FIELD GE	OLOGI		(4)	J							
WATER LI	ヒVヒし レ	AIA.			= 20m 5=						
(Date, Tin	IB & CO		<u>'</u>								
Sample No. &	Depth (ft)	Blows,	Sample Recovery	Lithology Changes (Depth, fL)		MATERI	AL DESCRIPTION	USCAS Flyck Bro-			
Type or	or Run No.	ROD	Sample length	or Screened Interval	Soll Denaity		MATERIAL	Bro-	REMARKS		
i		(13)		or Rock Color CLASSIFICATION		ruoistin	oum reading				
*			0-1			Bran	G14- Silt wy coment debux		150 ppm		
			2-3'			Yellow red	CL - Clay		110 ppm		
7) 1							7				
						*	LEB-ASBOOL - 4000(")				
				i		**	LEB-ASBOOL-JOOO(1)				
							1) PAHs analyzed				
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REMARKS_____



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PROJECT	Γ:	Liba	non C	ompress	ion Stat	<u>.,&n_</u>	BORING NO.: A SBOO DATE: 10-13- ELEVATION: NA	9 6	
PROJECT	۲ NO.: ـ	9	90.142	- LEB		<u></u>	JAIE:	77	
DRILLER:		(D) (2	4)		- hicrose	192	LEVATION: PA		
FIELD GE	:OLOGI	SI:							
WATER L	EVEL C	ATA:							
(Date, Tin	ne & Co	onditions	:):	<u> </u>	25 pm,	<u> </u>	> pm		
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, fL)		MATER	AL DESCRIPTION	usces	
Type or RQD	or Run No.	6' or RQD (N)	Sample length	or Screened Interval	Soll Density Consistency		MATERIAL	USCS FACK Bro- Kenete	REMARKS
				_	or Rock hardness	Color	CLASSIFICATION	moister	oum reading
*			0-1			Red Yellow	CL - Clay		10 ppm
**			7-31		britte	yellow	CL - Clay CL - Clay		10 ppn
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[-	, ,			· · C+ · +	~ F	RORING NO.: A SROO3		
PROJECT	I:	Liba	<u> </u>	compruss I ER	7141	(BORING NO.: ASBOOR DATE: 10-15-99 ELEVATION: NA		
PHOJEC	NO.: _	(b)	(4)	<u>- (ι ο</u>	- hierese	Les E	LEVATION: NA		
DRILLEN.	OLOGI	ST·							
I WAYNED I		יםום:							
(Date Tin	ne & Co	onditions):	10=10	An, 10	= 15 A	10=20 Am		
Sample	Depth		Semple	Lithology Changes	MATERIAL DESCRIPTION				
No. &	(fL)	Blows,	Recovery Sample	(Depth, ft.)				River	\
Type or . RQD	or Run No.	RQD 6° or	Sample length	Screened	Soil Density			USCS Front Bro- tenete	REMARKS
1143	, ,,,,	(11)		Interval	Consistency		MATERIAL	keusfe	OVM
.		}			or Rock		CLASSIFICATION	moistin	reading
					herdness	Color		 	
*			0-1			Red	CL- Clay intargul	-	
			1—————————————————————————————————————			Red	CL - Clay w/grawl CL - Clay CL - Clay		
44			2-31			Brown	CL - Clay	-	
***			3-41			Brown	CL - Clay		
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REMARKS	-								



PROJECT	ROJECT: Libanon Compresson Station BORING NO.: ASBOOT ROJECT NO.: 990142- LEB DATE: 10-14-99 RILLER: (b) (4) ELEVATION: NA RELD GEOLOGIST:										
PROJECT	NO.: _	90	10142-	- LEB		<u></u>	EVATION: 1/A				
DRILLER:		(b) (4	4)		h:crose	192	TTAVIIOIII - F/1				
FIELD GE	OLOGIS	ST:							 '		
I WATER L	EVEL U	AIA:									
(Date, Tin	1e & Co	nditions); <u> </u>	7 =			pa, 2:30 pm	1			
		•		Littrology		MATERI	AL DESCRIPTION	المحمد			
Sample	Depth	1	Sample	Changes			•	USCS Flyck Bro- kenete			
No. &	(ft.)	Blows,	Recovery	(Depth, ft.)	,						
Type or	or Run	6° or	Sample	or	Soll				REMARKS.		
RQD	No.	ROD	longth	Screened	Denelty			KADOLA	III MAINES		
		(11)		Interval	Consistency		MATERIAL	: 1	OVM		
		1			or Rock		CLASSIFICATION	moistan	reading		
					hardness	Color					
*			0-1			Brown	CL - Silty Clay w/ 15 and CL - Silty Clay w/ 15 and CL - Silty Clay w/ 15 and		oppn		
**			2-31			Brown	CL - Silty Clay w/15 47		oppos		
***			3-41			Brown	CL-Silty Clay w/ +cand		oppm		
				,			, . .		1 /		
							LEB-ASBOOY-40001				
						米木	LEB-ASBOOY-70001				
						***	LEB-ASBOOY-70001				
 											
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REMARKS											



PROJECT	PROJECT: Lebanon Compresson Station BORING NO.: ASBOOS PROJECT NO.: 990142- LEB DATE: 10-14-99 DRILLER: (b) (4) - h.croscops ELEVATION: NA											
PROJECT	NO.: _	9.	90142.	- LEB		<u>:</u>	DATE: 16-14-99	·	 -			
DRILLER:		(b) ((4)		- hicrose	<u> </u>	ELEVATION: PA					
FIELD GE	OLOGI	ST: _							· · · · · · · · · · · · · · · · · · ·			
WATER L	EVEL D	DATA:					7 - /					
(Date, Tin	ne & Co	onditions):	3:05	m , 3 = 4	Spm	,3:05/	τ				
Sample No. &	Depth	Blows.	Sample Recovery	Lithology Changes (Depth, ft.)	,	MATERI	uscs					
Type or RQD	or Run No.	6° or RQD (N)	Sample length	or Screened Interval	Soll Density Consistency		MATERIAL	USCS Reck Bro- keneve	REMARKS			
					or Rock herdness	Color	CLASSIFICATION	moista	oum reading			
*			c-1'			Brun	CL- Clay w/ band of sund		60 ppm			
**			2-31			Brown	CL - Cray		•			
************************************			3-41			Bran	CL - Clay CL - Clay CL - Clay					
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							LEB-ASBOOS-40001	7				
							LEB-ASB 005-70002					
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REMARKS_												



PROJEC1	PROJECT: Lebanon Compresson Station BORING NO.: ASBOOD PROJECT NO.: 990142-LEB DRILLER: 10-14-19 FIELD GEOLOGIST: ELEVATION: NA											
PROJEC1	NO.: _	9	90142	- LEB			ELEVATION: 1/4					
DRILLER:		(b)	(4)		- Microse	<u> </u>	LL VALLOIT. PAT					
FIELD GE	OLOGI	ST: _		_								
I WATER L	ヒVヒし レ	MIA:										
(Date, Tin	10 & CC	enditions)):	7-10			2 12:10 pm					
Sample No. &	Depth (ft.)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		AATERI	AL DESCRIPTION	usce				
Type or RQD	or Run No.	6° or RQD (N)	Sample length	or Screened Interval	Soll Deneity Conelstency or Rock		MATERIAL CLASSIFICATION	USCS Rock Bro- benous	HEMARKS			
					hardness	Color			reading			
			(55	_				
*			0-1			Green	graver 712 34 mps	_	0 (-			
**			2-31			Brown	CL - Silty Clay		- 39			
			3-4'			Brown	gravel no sample CL - Silty Clay CL - Silty Clay		0.5pm			
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REMARKS												



PROJECT	Γ:	Liba	non C	ompress	-n Stat	<u>,&n</u> [BORING NO.: A SBO DATE: 10-14- ELEVATION: NA	07	
PROJECT	Γ NO.: _	9	90142	- LEB			DATE: 10-14-	99	
DRILLER:		(b)	(4)		- h:crose	192	ELEVATION: PA		
FIELD GE	OLOGI	ST: _							
I WATER L	EVELU)A I A:							
(Date, Tir	ne & Co	onditions):		L - 5 / ~	<u> </u>			
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)	•	MATERI	AL DESCRIPTION	usce	,
Type or _ RQD	or`Run No.	6° or RQD (N)	Sample length	or Screened Interval	Soll Density Consistency or Rock hardness	Color	MATERIAL CLASSIFICATION	USCA Frack Bro- tyonous Trioittin	REMARKS OVM reading
	 					Dogga	C1 - C-14 1 (Can)	_	
木木	 			{		Dr co-st	CL - Silty clay w/ sand	1	
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REMARKS_								. <u></u>	



(Date, Tim	こひとしひ	AIA.		10:00/		ecps_	BORING NO.: ASB DATE: 10-12- ELEVATION: NA	- 99	
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATER	AL DESCRIPTION	usce	
	or Run No.	6° or RQD (N)	Sample length	or Screened Interval	Soll Density Consistency or Rock herdness	Color	MATERIAL CLASSIFICATION	USCS Prock Bro kenous Procition	REMARKS OVM reading (fp.) 2 ppm
*			10-11			brown	CL- Clay		2 ppm
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PROJECT: Lebanon Compresson Station BORING NO.: ASB 009 PROJECT NO.: 990142- LEB DATE: 10-12-99 PRILLER: 10-12-99 ELEVATION: NA												
PROJECT	NO.: _	_ 9	90142.	<u>- LEB</u>			$\frac{10-12-9}{1000}$	4	-			
DRILLER:	-51 65°	(b) (4)		n:crose	<u> </u>	EEAVIIOIA' TAU					
FIELD GE WATER L	CVCI P	SI: EEE		J								
(Date. Tin	ne & Co	nditions);	10:	30Am							
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATERI	AL DESCRIPTION	usce				
Type or :	or Run No.		Semple longth	or Screened Interval	Soll Density Consistency or Rock herdness	Color	MATERIAL CLASSIFICATION	USCS Ryck Bro- yeneus rusistin	REMARKS OVM reading			
*			9-10			brown	CL-Clay					
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REMARKS_____



PROJECT	PROJECT: Lebanon Compressor Station BORING NO.: A SBOIC PROJECT NO.: 990142- LEB DATE: 10-13-99 DRILLER: (b) (4) h.cr.secps ELEVATION: NA FIELD GEOLOGIST:											
PROJEC1	「NO.: _	9	90142	<u> - LEB</u>		!	DAIE:	77				
DRILLER:		(b)	(4)		- hicrose	1923	ELEVATION: <i>NA</i>					
FIELD GE	OLOGI	ST: _										
IWATERI	FVFI D	DATA:						-				
(Date, Tin	ne & Co	onditions	;):	2:50	pm, 2	=50 p	m, 2=50 pm					
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)			AL DESCRIPTION	usce				
Type or : RQD	or`Run No.	(M) BOD 6. ot	Sample longth	or Screened Interval	Soli Deneity Consistency or Rock hardness	Color	MATERIAL CLASSIFICATION	USCAS RACK Bro- yeneus rusistan	REMARKS OUM reading			
*			6-1'			Brann	CL-Clay	_	oppm			
**			2-31			Brinn Red	CL-Clay CL-Clay CL-Clay	T - 1				
			3-4'			Brium Red	CI = CInv	_	o ppm			
***)-4			Res	CL CITY	1 1	PPES			
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						*	LEB-ASB010-40001					
							LEB-ASBOIO -70001	1 1				
							LEB-ASBOIO-70002					
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REMARKS_		1		l	· · · · · · · · · · · · · · · · · · ·							



PROJECT	r:	Leba	non C	ompress	- Stat	<u>, 27 </u> [DATE: 10-12-99 ELEVATION: NA		
PROJECT	NO.: _	9	90142	- LEB		<u>:</u>	DATE: 10-12-99		
DRILLER:		(D) ((4)		hichese	cps t	ELEVATION: <i>N/</i>		
FIELD GE	OLOGI	ST:		J					
(Date Tin	na & Co	nditions	<u> </u>	1:4	+5 Pm		<u> </u>		
(Date, Thi	1000		<u></u>						
Sample No. &	Depth (ft.)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATERI	AL DESCRIPTION	uscs	
Type or :	or Run No.	(N) BOD E. or	Sample length	or Screened Interval	Soll Density Consistency or Rock		MATERIAL CLASSIFICATION	USCS Rock Bro- kenous moister	REMARKS OVM reading
					herdness	Color		1012144	heading
*			10-11		•	Brown	CL- May w/sand		
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REMARKS_



PROJECT	[:	Leba	non C	ompruss - IEB	en Stat	<u>ده،</u> ا	DATE: 10-12-90 ELEVATION: NA	1	
UDILLED.	110	(b)	(4)		- hierese	ع رمی	LEVATION: NA		
FIFI D GF	OLOGI:	ST:							
WAIFHI	HVHI II	AIA:							
(Date, Tin	ne & Co	nditions):		=35Am		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
Sample No. &	Depth (fL)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)	-		AL DESCRIPTION	usce	
Type or :	or Run No.	6° or RQD (N)	Semple longth	or Screened Interval	Soil Density Consistency or Rock herdness	Color	MATERIAL CLASSIFICATION	USCS Flock Bro- tonous Monous	REMARKS OUM reading
*			10-11			Brang	SC-Clay w/ sand		Oppor
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							LEB		
						*	ASB012-70001		
								 	
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REMARKS									



PROJECT: Lehanen Compressor Station BOAING NO.: AS\$ 613 PROJECT NO.: 99147 LEB ACTIONS DATE: 10-12-97 ELEVATION: MA MATERIAL DESCRIPTION USC PROPER NO. 8 PROPER NO. 10 PROPER NO. 1	PROJECT	ROJECT: Lebanon Compresser Station BORING NO .: AS8013											
WATERIAL DESCRIPTION Clate, Time & Conditions): 12-0-pm Depth No. & Conditions Type or or Run Floor No. ROD NO. ROD NO. RO	PROJECT	NO.: _	9	90142	- LEB			DAIL: 10-17-9.	L				
WATERIAL DESCRIPTION Clate, Time & Conditions): 12-0-pm Depth No. & Conditions Type or or Run Floor No. ROD NO. ROD NO. RO	DRILLER:		(b)	(4)		h:crose	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LEVATION: NAT					
WATERIAL DESCRIPTION Clate, Time & Conditions): 12-0-pm Depth No. & Conditions Type or or Run Floor No. ROD NO. ROD NO. RO	FIELD GE	OLOGI	ST:		J								
Sample No. 8 Type or RNO. No. 1907 No. 1907	WATER	EVELL	AIA.										
Sample No. 8 (R.) (R.) (R.) (R.) (R.) (R.) (R.) (R.)	(Date, Tin	не & Со	nations):	16-	pm	====						
A Seria - 7001			Blows,		Changes	•	MATERI	AL DESCRIPTION	usce				
A Seria - 7001									Fleyck Fleyo-	DEMARKS			
# 10-11 Brain CL- Clay w sord/grant - Oppin	RQO	No.		length				MATERIAL	konote	UCWYLING?			
# - 10-11' Bran CL- Clour sontgont - Oppon LEB- * ASB 013-70001			, ,						mort	OVM			
LEB- * ASR-13-70001						herdness	Color		10.714	reading			
LEB- * ASR-13-70001	*			10-11			Brown	(1 - Clause sando	, —	Oppm			
LEB- ** AS\$ **13 - 70001	7	_		1 11			01004	<u> </u>					
LEB- ** AS\$ **13 - 70001													
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PROJECT	I:	Liba	005 C	omprus	- JT4 I	1	BORING NO.: ASBOYS DATE: (0-12-9 ELEVATION: NA	9	
PHOJEC	I NO.: _	(b)	4	- LCB	hienes		LEVATION: MA	+	
FIELD GE	OI OG!	ST			71.67-38	-			
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(Date, Tin	ne & Co	onditions	3:]-	2=3-1	m				
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)	1	MATERI	AL DESCRIPTION	usce	
Type or ; RQD	(fL) or Run No.	6° of RQD (N)	Sample length	or Screened Interval	Soll Density Consistency or Rock hardness	Color	MATERIAL CLASSIFICATION	Hock Bro- Monage Monage	REMARKS OVM reading
*			10-11		,	Bran	CL-Clay w/sand		
-7/			10-11						
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REMARKS									



PROJECT	PROJECT: Lebanon Compresser Station BORING NO.: A 58015 PROJECT NO.: 990142- LEB DATE: 10-12-99 DRILLER: (b) (4) FIELD GEOLOGIST:												
PROJEC1	NO.:	9	90142	- LEB			DATE: 10-12-0	19					
DRILLER:		(b)	(4)		h:crose	<u> </u>	ELEVATION: <i>M4</i>						
FIELD GE	OLOGI	ST: _											
								 -					
(Date, Tin	ne & Co	anditions	<u>}:</u>	V-15	proje	-15 pr							
Sample No. &	Depth (fL)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATERI	AL DESCRIPTION	usce					
Type or RQD	or Run No.	6° or RQD (N)	Semple length	or Screened Interval	Soil Density Consistency		MATERIAL	USCS Rock Bro- tyenete	REMARKS				
					or Rock herdness	Color	CLASSIFICATION	moistin	reading				
*			0-1			Brown	CL-Clay	_	o ppm				
**			10-111			Brown	CL-Clay		oppn				
							,						
						*	LEB-ASBO15-40001						
							LEB-ASBO15-70-01						
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REMARKS													



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PROJECT	PROJECT: Lebanon Compresson Station BORING NO.: ASBOID PROJECT NO.: 990142- LEB DATE: 10-12-97 DRILLER: (b) (4) - hicknesses ELEVATION: NA.												
PROJECT	. NO:: _	9	90142	- 'LEB			DAIE: 10-12-99						
DRILLER:		(D)	(4)		- Michese	<u> </u>	ELEVATION: NA						
HELD GE	EVEL D	SI: _											
(Date Tin	ne & Co	nditions	1:	7) 1	. SUPm	. 3=	10 pm						
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATERI	AL DESCRIPTION	usce					
Type or RQO	(fL) or Run No.		Sample length	or Screened Interval	Soll Density Consistency or Rock hardness	Color	MATERIAL CLASSIFICATION	Prock Brok Wonous Principting	7 2 40. 19				
*			0-1'			Bran	CL-Clay CL-Silty Clay		0 ppm				
**			10-11			Brewn	CL - Cilty clay	_	15 ppm				
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						*	LEB-ASBOIS-40001						
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EMARKS													



PROJEC1	PROJECT: Libanon Compresson Station BORING NO.: A 58017 PROJECT NO.: 990142- LEB DATE: 10-14-99 PRILLER: h:croscops ELEVATION: NA												
PROJECT	NO.: _	9	90142.	<u>- 'LEB</u>			JAIL: 16-14-99						
DRILLER:		(b) (4)		h:crose	عا <u>رم</u> ی	ELEVATION: PA						
FIELD GE	OLOGI	ST:						 					
IWATERI	EVEL D	DATA:											
(Date. Tin	ne & Co	enditions): <i>\</i>	o pm,	4:00 pr	4	copm						
Sample	Depth		Sample	Lithology Changes			AL DESCRIPTION	USCS RACK Bro- Monage					
No. &	(ft.)	Blows,	Recovery Sample	(Depth, ft.)				Reyck	\				
Type or	or Run No.	RQD	length	Screened	Soll			Bvb−	REMARKS				
rico I	140.	(10)	torigui	knterval	Density Consistency		MATERIAL	\$ one for					
		` '			or Rock		CLASSIFICATION	moista	OVM				
					hardness	Color	CLASSIFICATION	140,744	reading				
				×									
*			0-1			Brown	CL - Clay		ppm				
**			2-3'			Brown	CL - Clay CL - Clay CL - Clay		o ppn				
16.68			3-41			Rooms	C.C Clay	-	10 ppm				
***			<u> </u>			<i>D</i>			7/				
			·			*	LEB-ASBO17-4-001		·				
,							LEB-ASB017-70001						
						,	LEB-ASB017-700-2						
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DEMARKS	·	•	·					-					



PROJEC1	Γ:	Liba	non C	ompress	- Stat	. <u>en</u> [BORING NO.: $ASBOI$	8			
PROJECT: Lebanon Compresson Station BORING NO.: ASBOL8 PROJECT NO.: 990142- LEB DATE: DRILLER: (b) (4) - h:cnoscept ELEVATION: NA FIELD GEOLOGIST:											
DRILLER:	_	(b)	(4)	_	- hickors	علعجد و	ELEVATION:				
FIELD GE	OLOGI	ST:		_							
1 1A/A T L.C.) I	L\/LI	ια ι α '									
(Date, Time & Conditions): 3 = 55pm, 4=copm, 4=copm											
Sample No. &	Depth	Blows.	Sample Recovery	Lithology Changes		•	AL DESCRIPTION	USCA Rock Bro- tonous			
Type or _ RQD	or Run No.	6° or RQD (N)	Sample length	or Screened Interval	Soli Denetty Conelstency or Rock		MATERIAL CLASSIFICATION		REMARKS OVM reading		
				·	herdness	Color			7 6 9 6 9		
*			0-1			Brown	CL - Clay		a ppm		
**			2-31			Brown	CL - Clay CL - Clay CL - Clay	^	30 ppm		
***			3-41			Brown	CL - Clay	-	50 ppm		
							/				
						*	LEB-ASB018-40-01				
				!		**	LEB-ASB018-70001				
						****	LEB-ASB018-7002				
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REMARKS											



PROJECT	Γ:	Leba	non C	omoruss	in Stat	<u>رد،</u> ا	BORING NO.: <u>A 58º1</u> DATE: <u>10-13-</u> ELEVATION: <u>NA</u>	າ	
PROJECT	NO.: _	9	90142	- LEB			DATE: 10-13-	99	<u>-</u>
DRILLER:		(b)	(4)		· h:crose	<u> </u>	ELEVATION: NA		
FIELD GE	OLOGI	ST: _		U					
WATER L			١.	9 - 11	(1 9:	460-	,9:45 Am		
(Date, Tin	ne & CC	PIORIONS	·	<u> </u>	1			T 1	
Sample No. &	Depth (ft.)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATER	AL DESCRIPTION	usce	
Type or : RQD	or Run No.	or Run 6° or Sample or No. RQD length Screen	or Screened Interval	Soll Deneity Consistency or Rock herdness	Color	MATERIAL CLASSIFICATION	USOS Fenore Fenore Froiter	OUM reading	
*			0-1			Brewn	CL-Clay		oppos
**			2-31			Brang	CL-Clay		0 ppm
***			3-41			Brown	CL-Clay CL-Clay CL-Clay	-	o ppm
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	<u> </u>		-			*	LEB-ASB019-40001		
/							LEB-ASB019-70001		
							LEB-ASB019-70002		
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PROJECT	Γ:	Leha	non C	omoruss	on Stat	,en 1	BORING NO.: ASBG	20	
PROJECT	NO.:	9	90142	- LEB		(DATE: 10-12-	99	
DRILLER:	·	(b)	(4)		- hierose	1923	BORING NO.: ASBG DATE: 10-12- ELEVATION: NA		
FIELD GE	OLOGI	ST: _							
WATER L						··· ·			
(Date, Tin	ne & Co	onditions	<u>):</u>	<u> </u>	upm				 -
Semple No. &	Depth (ft.)	Blows.	Sample Recovery	Lithology Changes (Depth, ft.) or Screened Interval			AL DESCRIPTION	usce	
Type or :	or Run No.	6° or RQD (N)	Sample length		Solf Denaity Consistency		MATERIAL	USCS Rock Bro- keneus	PEMARKS OVM reading 9 ppm
					or Rock herdness	Color	CLASSIFICATION	moisten	reading
*			10-11			white	GP - Sand w/grand		9ppn
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REMARKS									



PROJECT	Γ:	Leba	non C	omoruss	- Stat	<u>رى،</u> 4	BORING NO.: <u>ASBOZI</u>				
PROJEC1	NO.:	9	90142	- LEB		(DATE: 10-12-99				
DRILLER:		(b) ((4)		- hicrose	<u> </u>	ELEVATION: <i>NA</i>				
FIELD GE	OLOGI	ST: _		<u> </u>			DORING NO.: ASBOZIONTE: 16-12-99 ELEVATION: NA				
WATER L	EVEL D	ATA:	<u></u>	/ ()	<u></u>						
WATER LEVEL DATA:											
Semple No. & Type or : RQO	Depth (fL) or Run No.	Blows, 6° or RQD (N)	or Sample D length	Lithology Changes (Depth, fL) or Screened Interval		MATERI	AL DESCRIPTION	usce			
					Soll Density Consistency or Rock hardness	Color	MATERIAL CLASSIFICATION	USCS Flock Bro- tyenous Moistan	OVM reading		
*			9-101			braun	CL-Clay				
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PROJECT	r:	Leba	non C	ompress	- Stat	<u>ري،</u>	BORING NO.: ASB 03 DATE: 10-13-9 ELEVATION: NA	2 2	
PROJECT	NO.: _	9	90142	<u>- LEB</u>			DATE: 16-13-9	7	
DRILLER:		(b) (4)		- hicrose	-1202 E	LEVATION: NA	-	
FIELD GE	OLOGI	ST: .							
WATER L	EVEL D	ATA:			5 Am				
(Date, Tin	ne & Co	onditions):	10:0	5 Am				
Sample No. &	Dopth (fL)	Blows,	Sample	Lithology Changes (Depth, ft.)		MATERI	AL DESCRIPTION	USCS Flock Bro- tonous	
Type or ? RQD	or Run No.	6° or RQD (N)	Semple length	or Screened Interval	Soll Density Consistency		MATERIAL		OVM reading
-					or Rock herdness	Color	CLASSIFICATION	moisten	reading
*			3-41			_			oppm
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						*	LEB-ASBOZZ-70001		
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REMARKS			l	<u> </u>		L		<u> </u>	<u> </u>



PROJEC' PROJEC	T: T NO.;	Liba 9	<u> 105 C</u> 90142	ompress - LEB	-n 1791	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	BORING NO.: ASBOT DATE: 10-13-0 ELEVATION: NA	<u> </u>	
PRILLER		(b)	(4)		- hiches	ا _ دعوی	ELEVATION: NA		
		J							
WATER (Date, Tir	EVEL U	MIA:	<u></u>	1	0:30 Ar		,	<u> </u>	
Sample No. & Type or : RQD	Depth (ft.) or Run No.	Sam Blows, Recor 6° or Sam	Sample	Lithology Changes ry (Depth, fL)			AL DESCRIPTION	usce	
			Recovery Sample length		Soll Density Consistency or Rock herdness	Color	MATERIAL CLASSIFICATION	USCS Flock Bro- Lonous Moistine	REMARKS OVM reading
*			3-41		Firm	Red Brown	CL - Silty clay		oppm
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PROJECT	ſ:	Leba	non C	ompress	-n Stat	<u> ۱۳۶۰ ۾ </u>	ORING NO.: ASBOT NATE: 10-13- ELEVATION: NA	<u>ر ا</u> . ۹۹				
PROJECT	NO.:	9	90142.	<u>- "LEB</u>				7.1.				
DRILLER:	-	(b)	(4)		h:crose	E _192	LEVATION:					
FIELD GE	OLOGIS	ST:										
WATER L	EVEL D	AIA:										
(Date, Time & Conditions):												
Sample I	Depth	Blows,	Sample Recovery Sample length	Lithology Changes (Depth, ft.) or Screened Interval	(MATERI	AL DESCRIPTION	USCS Ryck Bro- kenera Proistin				
	or Run No.				Soll Deneity Consistency or Rock herdness	Color	MATERIAL CLASSIFICATION		7 2 12 2			
*			3-41		·	Brown	CL-Sandy Clay	_	0 ppm			
												
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REMARKS____



													
PROJEC1	PROJECT: Lebanon Compresson Station BORING NO.: ASBOLS PROJECT NO.: 990142- LEB DATE: 10-13-99 PRILLER: 60 (4) - h:croscops ELEVATION: NA												
PROJEC1	NO.:	9	90142	- LEB		(DATE: <u>10-13-99</u>						
DRILLER:		(b)	(4)	-	- hicrose	<u> </u>	ELEVATION: NA						
FIELD GE	OLOGI	ST:				,							
WATER L	EVEL D	ATA:											
(Date, Tin	ne & Co	nditions):		0:50Am								
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)			AL DESCRIPTION	uscs					
Type or :	or Run No.		Semple length	or Screened Interval	Soll Deneity Consistency or Rock hardness	Color	MATERIAL CLASSIFICATION	USOS Rijek Bronge Proizing	1010				
*			3-41			Brown	CL- Clay	_	Оррт				
	-					<i>V</i>			1 //				
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						*	LEB-ASBOZ5-70001						
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REMARKS													



PROJECT	Г:	Leba	non C	ompress	ion Stat	ا <u>ره،</u> ،	BORING NO.: A SROZ DATE: 10-13-99 ELEVATION: NA	6	
PROJECT	Γ NO.: _	9	90142	- LEB		(DATE:	7	
DRILLER:	_	(b)	(4)		- Hickorse	292	ELEVATION: <i>NA</i>		
FIELD GE	OLOGI	ST:							
IWATEDI	EVELL	IA I A ·							
(Date, Tin	ne & Co	onditions	;):	115	oo Am	<u> </u>			
Semple No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, fL)		MATER	AL DESCRIPTION	usce	
Type or : RQD	or Run No.	6° or RQD (N)	Sample longth	or Screened Interval	Soll Density Consistency or Rock hardness	Color	MATERIAL CLASSIFICATION	Hook Bro- yeneve Prooffin	Oppm Oppm
*			3-41			River	CL - Clay	_	0 Don
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PROJECT: Lebanon Compresson Station BORING NO.: A 58 0 27 PROJECT NO.: 990142- LEB DATE: 10-13-99 DRILLER: (b) (4) Lebanon Compresson Station BORING NO.: A 58 0 27 DATE: 10-13-99 ELEVATION: NA												
PROJECT	NO.: _	9.	90142	<u>- LEB</u>			AIE: 10-13-99					
DRILLER:		(b)	(4)		- hicrose	E _ <u>زمې</u> E	LEVATION: <i>NA</i>					
FIELD GE	OLOGI	ST: _										
WATER L	EVEL D	ATA:			1 - 1 -							
(Date, Tin	ne & Co	onditions): <u> </u>		1-15pm			 				
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, fL)		AATERI	AL DESCRIPTION	usces				
Type or :	or Run No.		Sample longth	or Screened Interval	Soll Density Consistency or Rock herdness	Color	MATERIAL CLASSIFICATION	USCS Rock Bro- bonous Prioritina	OUM reading			
*			3-41									
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PROJEC1	:	Leba	non C	ompress	- Stat	<u>. 69.</u>	BORING NO.: A SBOZ DATE: 10-13-9 ELEVATION: WA	8	
PROJECT	NO.: _	9	90142.	- LEB			DAIL: 10-13-9	7	
DRILLER:		<u>(b)</u> ((4)		- hichese	<u> دمی</u> E	LEVATION: <u>NA</u>		
FIELD GE	OLOGI	ST: _		المراجعة					
WATER	EVELL	AIA.							
(Date, Tin	1е & Сс	nditions	<u>}:</u>		40 Pm	====			
Sample No. &	Depth (fL)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)			AL DESCRIPTION	usce o	
Type or 1	or Run No.	FOD (N)	Semple length	or Screened Interval	Soll Denetty Consistency or Rock		MATERIAL CLASSIFICATION	USCS Rock Bro- kenous Moixton	REMARKS OUM reading
					herdness	Color		140,7144	reading
			3-41			Proug	CL - Sundy clay	_	o ppm
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						¥	I FR - ACROS & Secol		
						7	LEB-ASBOZ8-70001		
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PROJECT	:	Lehar	200 C1	moress	- Stat.	<u>رحي</u> B	ORING NO .: <u>A 58029</u>		
PROJECT	NO.: _	90	20142-	- LEB		<u>p</u>	MIE: 10-13-9	<u>/</u>	
DRILLER:		(b) (4	4)		- hicrose	<u>دمي</u> E	DORING NO.:		
FIELD GE	OLOGI	ST:		Ţ.					
WATER LI (Date, Tim	EVEL D	AIA:					~, 11=15Am		
Luale, III	10 Q CC	(dronner	<u>''</u>					<u> </u>	
Sample No. &	Depth (fL)	Blows,	Sample Recovery	Lithology Changes (Depth, fL)		AATERIA	AL DESCRIPTION	usce 67	
Type or ROD	or Run No.		Sample length	or Screened Interval	Soll Density Consistency		MATERIAL	USCS Ryck Bro- kenete	REMARKS
					or Rock herdness	Color	CLASSIFICATION	moistin	
*		 	0-14			Bran	CL - Clay	l	oppm
**			2-31			Brown	CL-Clay	-	oppor
			3-41			Brown	CL-Clay CL-Clay CL-Clay w/ Sand		offm
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REMARKS		<u></u>							



PROJEC1	PROJECT: Lebanon Compresson Station BORING NO.: ASB030 PROJECT NO.: 990142- LEB DATE: 10-13-99 DRILLER: DI - h:crosecps ELEVATION: NA											
PROJECT	PROJECT NO.: 990142- LEB DATE: 10-13-99											
DRILLER:		(b)	(4)	-	- h:crose	<u> </u>	ELEVATION: <u>MA</u>					
FIELD GE	OLOGI	ST:		-								
WATER L	EVEL D)ATA:										
(Date, Tin	ne & Co	onditions):	1:00 pm	1=00	pn ,	1:00 pm					
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)	•	MATERI	AL DESCRIPTION	usce				
Type or :	or Run No.	6° or RQD (N)	Semple length	or Screened Interval	Soll Density Consistency or Rock		MATERIAL	USCS Rock Bro- kenete	REMARKS			
					herdness	Color	CLASSIFICATION	moistan	reading			
*			0-1			Acd Brown	CL- silty clay	_	oppn			
**			2-3"			Red Brown	CL - silty clay	_	OPPM			
			3-41			Red	CI = Silty class	_	obbu			
***			3.4			Broon.	CC JANY CITY		- PF 15			
												
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						**	LEB -ASB030-70001					
						***	LEB-ASB030-70002					
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PROJEC1	ROJECT: Lebanon Compressor Station BORING NO.: A 58031 ROJECT NO.: 990142- LEB DATE: 10-13-97 RILLER: (b) (4) - h:crosecps ELEVATION: NA ELD GEOLOGIST:										
PROJECT	NO.:	9.	90142.	- LEB		0	DATE:				
DRILLER:	-	(b)	(4)		h:crose	<u> زمین</u>	ELEVATION: <u>NA</u>				
FIELD GE	OLOGI	ST:									
WATER L	EVEL D	ATA:									
(Date, Tin	ne & Co	nditions): <u> </u>	<u> = 25 P</u> ~	, 7=25	Pm	, 2 = 25 lm				
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATERI	AL DESCRIPTION	usces 67			
Type or RQD	or Run No.	6° or RQD	Sample longth	or Screened Interval	Soll Density Consistency		MATERIAL	USCS Rock Bro- benote	REMARKS		
					or Rock herdness	Color	CLASSIFICATION	moisten	reading		
*			0-1			Brown	CL - Sundy clay CL - Sundy Clay CL - Sundy Clay		oppor		
**			2-31			Brown	CL - Sandy Clay		o ppm		
***			3-4'			Brown	CL- Sgady clay		o ppm		
							· · · · · · · · · · · · · · · · · · ·				
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							LEB-ASB031-40001				
							LEB-ASB031-70001				
						***	LEB-ASB031-70002				
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REMARKS______



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PROJEC1	ī:	Leba	non C	ompress	-n Stat	<u>, 29 </u>	DATE: 10-13- ELEVATION: NA	3 6	
PROJECT	NO.: _	9	90142	- LEB				79	
DRILLER:		(D)	(4)		- hicrose	seps t	ELEVATION:	· · · · · · · · · · · · · · · · · · ·	
FIELD GE	OLOGI	SI:_						-	
WATER L	na & Co	nditions	<u>. </u>	11=104	m . 11:19	Am	11=10Am		
Semple	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)			AL DESCRIPTION	usce	, , , , , ,
Type or 1	or Run No.	6° or RQD (N)	Semple length	or Screened Interval	Soll Density Consistency or Rock		MATERIAL CLASSIFICATION	USCS Rock Bro- tyenous Theisten	OVM reading
					hardness	Color			
*			0-11			Brown	CL - Clay	-	- oppm
**			2-31			Brown	CL-Clay CL-Clay	_	o ppm o ppm
***			3-41		:	Brown	CL-Clay	<u> </u>	Oppra
11 W W							7		
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			-			*	LEB-ASB032-40001	<u> </u>	
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							LEB-ASB 031-70002		
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DEMARKS									



000:50	PROJECT: 1.1 Con anyssen Stetzen BORING NO.: ASB 033											
PROJECT: Lebanon Compresson Station BORING NO.: A 58033 PROJECT NO.: 990142- LEB DATE: 10-14-97 DRILLER: LD) (4) - h:croscops ELEVATION: VA												
PHOJECI	MO": "	(b)	(4)		- hicroso	E زمری	LEVATION: VA					
FIELD GE	OLOG!	ST.					-					
WATER	EVEL D	ATA:		-					<u></u>			
(Date, Tig	ne & Co	enditions):	9=50A1	7,9=50	Am,	9 = 5 ° An					
Sample	Depth		Sample Recovery	Lithology Changes (Depth, ft.)			AL DESCRIPTION	usce				
No. & Type or . RQD	(fL) or Run No.	Blows, 6° or RQD (N)	Sample length	or Screened Interval	Soll Deneity		MATERIAL	USCS Flock Bro- lyenete	REMARKS			
	-				Consistency or Rock hardness	Color	CLASSIFICATION	moista				
1/4			0-1		Ret	Red	(1 - Clay yeravel		Oppor			
*************************************			2-31		y	Red	CL - Clay Ygraul CL - Clay CL - Clay	-	o ppm			
			3-41			Red	CI = Clay	-	o ppm			
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						*	LEB-AS8033-40001					
							LEB-ASB037-700-1					
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REMARKS												



PROJECT	PROJECT: Libanon Compresson Station BORING NO.: ASBO34 PROJECT NO.: 990142- LEB DATE: 10-14-99 DRILLER: (b) (4) - h:cresces ELEVATION: NA FIELD GEOLOGIST:												
PROJECT	T NO.: _	9	90142	<u>- 'LEB</u>			DATE: 10-14-9°	Ž					
DRILLER:		(b)	(4)		- hicrose	292	ELEVATION: <u>PA</u>						
FIELD GE	OLOGI	ST:											
I WATER L	EVELL	MIA:	_										
(Date, Tig	ne & Co	onditions	3):	10.	17 Am 1	0:17	An, 10:17 An						
Sample	Depth		Semple	Lithology Changes	,		AL DESCRIPTION	USCS PACK Bro- keneta					
No. &	(fL)	Blows,	Recovery	(Depth, fL)				P.Vok					
Type or .	or Run		Sample	or Screened	Soll			Bro-	REMARKS				
RQO	No.	RQD (N)	longth	Interval	Denetty	i	*********	konese	THE MINISTER				
		(14)		# KOIVE	Consistency		MATERIAL		OVM				
;					or Rock		CLASSIFICATION	moistan	reading				
		l			herdness	Color			1 7 12 7				
*			c-1			Brown	CL - Clay w/gravel 15ml		oppn				
**			2-31			grown	CL-Clay w/gravel 1841 CL-Clay w/gravel CL-Clay		oppm				
***			3-41			But	((=()=)		oppn				
ላ ላ ላ ላ						8224	<u> </u>		- ff-/-				
						*	LEB-ASB034-40-01						
						1	[EB-ASB034-70001						
						<i>大木</i> 米	LEB-ASB034-70002						
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REMARKS													



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PROJECT	PROJECT: Libanon Compresson Station BORING NO.: ASBO35 PROJECT NO.: 990142- LEB DATE: 10-19-99 DRILLER: 10 (4) - hicrosceps ELEVATION: NA WATER LEVEL DATA:											
PROJECT	r no.: _	9	90142	<u>- 'LEB</u>			DATE: 10-19-7	7				
DRILLER:		(b)	(4)		- hicrose	<u> </u>	ELEVATION: PA					
FIELD GE	OLOGI	ST: _										
WATER L	EVEL D	ATA:						-				
(Date, Tin	ne & Co	onditions	s):	10:0	Am , 10	=00 A	n,10:00Am	, .				
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)	-		AL DESCRIPTION	uscas 				
Type or RQD	or Run No.	6' or RQD (N)	Sample longth	or Screened Interval	Soll Deneity Consistency or Rock		MATERIAL CLASSIFICATION	USCS Rock Bro kenera Mailtre	REMARKS			
					herdness	Color			reading			
*			0-1			Brang	CI - Clay	-	0 200			
**			2-31			Red	CL - Clay CL - Clay CL - Clay	_	o ppm o ppm			
						Red	21 61					
			3-41			Brown	LL - L/44		uppm			
						*	LEB-ASB035-40-01					
							LEB-ASB035-70001					
							LEB-ASB035-70002					
						777	L C 6 - 7730 0 3 7 7 - C					
												
- N. 												
							:					
EMARKS												



DOO ISC	PROJECT: Lebanon Compresson Station BORING NO.: A 58036 PROJECT NO.: 990142- LEB DATE: 10-13-79 DRILLER: [b) (4) Lebanon Compresson Station BORING NO.: A 58036 PROJECT NO.: 990142- LEB DATE: 10-13-79 ELEVATION: NA												
PROJECT	. NO.:	7 5 8 8	90142	- LEB			DATE:	- 79					
DRILLER:		(<mark>b</mark>)	(4)		- hickese	192	ELEVATION: NA						
I FIELD GE	CLUG	S1											
WATER L				11.00	74 - (4	1 - (0/	lon , 11=50 Am		- · <u> </u>				
(Date, Tir	ne & CC	HORIORS)·					T					
Sample No. &	Depth (ft.)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATER	AL DESCRIPTION	usce					
Type or ; RQD	or Run No.	6° or RQD (N)	Sample length	or Screened Interval	Soll Density Consistency or Rock herdness	Color	MATERIAL CLASSIFICATION	USOS Fronts Fronts Fronts	OUM reading				
*			0-11			Red Brown	CL - Clay w/silt	_	appro				
**	-		2-31			Red	CL-Clayer/silt		oppm				
***			3-41			Braun	CL - Claye/silt	Strante					
1							•		· · · · · · · · · · · · · · · · · · ·				
·						¥	LEB-ASB036-40001		-				
							LEB=ASR036-70001						
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REMARKS													



PROJECT	 Γ:	Leba	non C	ompress	-n Stat	. <u>,&n_</u> E	BORING NO.: A SB 0 3 DATE: 10-17-00 ELEVATION: MA	7	
PROJECT	NO.: _	9	90142	<u> - LEB</u>			DATE: 10-12-00		
DRILLER:		(b)	(4)		- h:crose	1925 F	ELEVATION: <i>UA</i>		
I ILLE GL	.OLOGI	٠ <u>_</u>					· · · · · · · · · · · · · · · · · · ·		
WATER L				017	7		7-2: 3-1/4		
(Date, Tin	ne & Co	onditions	<u>):</u>	3-30	$\rho \sim 1^{-1}$	Sopra	13=30pm, 3=40p-	<u> </u>	
Sample No. &	Dopth (fL)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)			AL DESCRIPTION	1 1	
Type or 1	or Run No.	6° or RQD (N)	Sample length	or Screened interval	Soll Density Consistency		MATERIAL	USCE Forck Bro- tyeneys	REMARKS
					or Rock herdness	Color	CLASSIFICATION	moisten	reading
*			0-1			Brown	CL-Clay CL-Clay CL-Clay CL-Clay		oppm
**			2-37			Brown	CL-Clay		oppm
***			3-41			Brown	CL-Clay	-	oppm
***			10-11			Brown	CL-Clayw/sande		_
							/		
			·			*	LEB-ASB037-40001		
							LEB-ASB037-70001		
						***	LEB-ASB037-70002		
						****	LEB-ASB 037-70003		
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						_	ODING NO. ACD -7	۴	
PROJECT	:	Libar	205 C	mpress	tetl no	<u>ہے۔ آ</u>	NATE: 10=100 9	9	
PROJECT	. NO::	90	20142-	- LEB			DATE: 10-14-9 ELEVATION: HA		
DRILLER.	_	(b) (4)		h:crose	<u> </u>	LEVATION: PH		
i field ge	OLOGIS	51: _							
WATER L	EVEL D	ATA:					1551		
(Date, Tim	1е & Со	inditions)):	10:5	5 Hm, 10.	- 55 Ac	7 10= 55 Am		
Sample	Depth (fL)	Blows,	Sample Recovery	Lithology Changes (Depth, fL)			AL DESCRIPTION	USCS Rock Bro- benote	
No. & Type or	or Run		Sample	10	Soli	ļ İ		Herck RA	REMARKS
ROD	No.	ROD	longth	Screened	Density	1 1	***	lyenous !	III WILLIA
		(12)		Interval	Consistency	1 I	MATERIAL	1 1	OVM
		, l			or Rock herdness	Color	CLASSIFICATION	moister	reading
		I			(1610(1464	Red		 	
*		├ <i>──</i>	0-11			Bran	CL-Clay		offer
			2-3'	1		Brun	CL - Clay CL - Clay CL - Clay		
**		 				Red			oppm
米禾禾			3-41			Brown	LL-Llay	 	- oppm
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} -									
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							LEB-ASB038-40001	 	
		 			<u></u>		LEB-ASB038-10001	11	
							LEB-ASB038-70002		
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REMARKS_									



PROJECT	·	Liba	nen C	cmoruss	ion Stat	, eg_ E	BORING NO.: A SB 03 DATE: 10-13-9 ELEVATION: VA	9	
PROJECT	NO.:	9	90142	- LEB			DATE:	9	
DRILLER:		(b) ((4)		- hicrose	<u> </u>	ELEVATION: VA		
FIELD GE	OLOGI	ST: _		ــــــــــــــــــــــــــــــــــــــ					
IWATERI	EVEL U	DATA:							
(Date, Tin	ne & Co	onditions):				3 Milo Am	 	
Sample No. &	Depth (ft.)	Blows,	Sample Recovery	Lithology Changes (Depth, fL)		MATERI	AL DESCRIPTION	usce	
Type or RQD	or Run No.		Sample length	or Screened Interval	Soil Density Consistency		MATERIAL	USCS Ryck Bro- tonous	REMARKS
					or Rock herdness	Color	CLASSIFICATION	moista	reading
*			0-11			Brenn	CL - Silty clay		0/87
**	ļ		2-31			Red	CL - Silty clay CL - Silty clay CL - Silty clay		oppn Oppn
***			3-41			Red	CL - 5:// c/4-1		GARA
-11/11/12						-	/		1 //
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						*	LEB-ASB039-40001		
							LEB-ASB 039-70001		
							LEB-ASB039-70002		
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REMARKS			·						



PROJECT	 Γ:	Liba	105 C	ompress	-~ Stat	, & n E	BORING NO.: ASB 94 DATE: 10-14-9 ELEVATION: VA	- 0	
PROJECT	Γ NO.: _	9	90142	- LEB			DATE: 10-14-9 ELEVATION: VA	19	····
DRILLER:		(b) (4)		- h:crose	t <u>ــــــــــــــــــــــــــــــــــــ</u>	ELEVATION: PA	 	
I FIELD GE	OLOGI	SI:							
WATER L	EVEL C)ATA :		1.626	- 0	2 (1-	11:25 4-	 	
(Date, Tir	ne & Co	onditions):	11-65			, 11=25Am	ī	
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATERI	AL DESCRIPTION	usce	
Type or . RQD	or Run No.	(N) RQD 6° or	Sample length	or Screened Interval	Soll Density Consistency		MATERIAL	USCS Flock Bro- tyeneus	REMARKS
					or Rock herdness	Color	CLASSIFICATION	moistra	reading
*			01		Firm	Brewy	CL - Silty Clay CL - Silty Clay CL - Silty Clay		oppn
**			2-31		Firm	Brown	CL- Silty Clay		Opps
***			7-41		Firm	Red Brown	CL - Silty Clay		Opps
									· · · · · · · · · · · · · · · · · · ·
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						*	LEB-ASB040-40001		
						**	LEB-ASB040-70001		
						*** *	LEB-ASB040-70002	 	
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REMARKS									



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PROJEC1	[: <u> </u>	Liba	non C	ompress	-n 1791	, <u>, , , , , , , , , , , , , , , , , , </u>	DATE: 10-14-9	9	
PROJEC1	NO.: _	9.	90142	- LEB	- 4		ELEVATION: 1/4		
DRILLER:	. = = = :	(D)	(4)		n:crose	<u> </u>	BORING NO.: $ASBOY$ DATE: $10-14-9$ ELEVATION: VA		
FIELD GE	OLOGI	S1: _							
WATER L	EVEL D	AIA:	 	11 - 4	0 Am . 11	: 40 A.	7,11=4-An		
(Date, Tin	ie & CC		<i>!</i> ·					1	
Semple No. &	Depth (ft.)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATERI	AL DESCRIPTION	USCS Flock Bro- kenote	
Type or : RQO	or Run No.	6° or RQD (N)	Semple longth	or Screened Interval	Soll Denetty Consistency or Rock hardness	Color	MATERIAL CLASSIFICATION	Moistra	REMARKS OUM reading
¥-			0-1		Firm	Rod	C.C Silty Clay	-	opp
*			2-31		Firm	Red	CL-Silty Clay CL-Silty Clay Cl - Silty Clay	-	·
**			3-4			Red	CI - Silky Class	-	oppm
***			<u>- ۲</u>		Fire	4.~~~			*/
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						V	I = P Acposed to and		
							LEB-ASBO41-40-01		
							LEB-ASB041-70001	 	
						******	LEB-ASBO41-7-02		
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FMARKS									



PROJEC1	「: <u></u>	Liba	non C	ompress	-n Stat	<u>, en E</u>	BORING NO.: ASBOY DATE: 10-14- ELEVATION: NA	2	
PROJEC1	NO.:	9	90142	<u>- 'LEB</u>			DAIE:	-95	
DRILLER:		(b)	(4)		- hicrose	<u> </u>	ELEVATION: VA		
HEW GE	CLUGI	SI							
WATER L	EVEL C)ATA:		1.5.			1567		
(Date, Tin	ne & Co	onditions):	1-10 pm	1.10	P	1-10pm	r i	
Sample No. &	Depth (fL)	Blows,	Sample Recovery	Lithology Changes (Depth, fL)		AATERI	AL DESCRIPTION	USCE Prock Bro-	
Type or . RQD	or Run No.	6' or RQD (N)	Semple length	or Screened Interval	Soll Deneity Conelstency	·	MATERIAL	Heck Bro- kenete	REMARKS
	: 1				or Rock hardness	Color	CLASSIFICATION	moistin	reading
*			0-11		Hard	Red Brown	CL-S-ltyclay		oppn
**			2-31		Hard	Rel	CL - Silfy day		y
**			3-41		Hard	Red Brown	CL-Silty clay CL-Silty day Cl-Silty Clay		oppm
	, , <u>, , , , , , , , , , , , , , , , , ,</u>						, ,		
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							LEB-ASBOYZ-40001		
							LEB-ASB042-70001 LEB-ASB042-70002		
						***	LEB-1758 041-1-02		
									
									
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REMARKS								L	



PROJEC	T:	Liba	200 C	omerus	ion Stat	.,en 1	BORING NO.: ASBOY DATE: 10-14-99 ELEVATION: NA	3	
PROJEC	T NO.:	9	90142	- LEB		(DATE: 10-14-99		
DRILLER:		(b)	(4)		- hickes	1 - 292	ELEVATION: <u>I/A</u>		
FIELD GE	OLOGI	ST: _							
I WATER L	EVEL C	DATA:						 -	
(Date, Tin	ne & Co	onditions	<u>;):</u>	12-100	m 112=1	opm	12=10pm	1	
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)	•	MATER	AL DESCRIPTION	usce	
Type or . RQ0	or Run No.	(N) RQD (N)	Sample length	or Screened Interval	Soll Deneity Consistency or Rock		MATERIAL CLASSIFICATION	USCS Rock Bro- tyenens	REMARKS OVM reading
		ļ			hardna44	Color			7010
*		ļ	0-1			Red	CL- Vyyu/Sand	_	appu
**			2-31			Brown	CL - Clay un/ sand CL - Clay un/ sand		
* * * * * * * * * * * * * * * * * * *	ļ		3-41			Red	CL-Clay sul sand	_	oppos
		· · · · · · · · · · · · · · · · · · ·							
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		·				*	LEB-ASB043-40001		
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PROJEC	T:	Liba	non C	omorus	s-n Stat	,en 1	BORING NO.: ASBOY DATE: 10-14-99 ELEVATION: NA	4	
PROJEC*	T NO.:	9	90142	- LEB		!	DATE:)	
DRILLER	· 	(b)	(4)		- hicrose	293	ELEVATION: VA		
FIELD GE									
(Date Tic	ne & Co	onditions	3):	11=	50A2 11	1=50	Am , 11 = 50 Am		
(5000, 111	1		<u> </u>	4					
Sample	Depth	ł	Sample	Lithology Changes	'	MAIEH	IAL DESCRIPTION	usce	
No. &	(ft.)	Blows,	Recovery	(Depth, ft.)	<u> </u>	·		\09	
Type or .	or Run		Sample	00	Soll]		USCS Rock Bro- keneve	DEMANA
RQD	No.	RQD (N)	longth	Screened Interval	Denetty		MATERIAL	kenege	REMARKS
			1	1	Consistency or Rock]	CLASSIFICATION	moistan	OVM
		1	Ì		herdness	Color	COASSI IOMISI	1001714	reading
*			0-1		Firm	Red	CL-Cilty Clay w/sand	_	OPPM
**			2-31		Firm	Red	CL-Silty Clay w/sand CL-Silty Clay w/sand CL-Silty Clay w/sand		oppn oppn
			3-41			Bed	CL CIL CL (5)	_	P
***			3-4		Firm	Brun	CL -5, 174 1.744 Wy 54-4		Mos
									
							2 40		
							LEB-ASB044-40001		
						**	LEB-ASB044-70001		· · · · · · · · · · · · · · · · · · ·
				·		***	LEB-ASB044-70002		
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						-			***************************************
									
									
									
				,					
	}								
REMARKS									



PROJEC	T:	Liba	non C	omoruss	Stat	,en 1	BORING NO.: A 5 B S DATE: 10-13-0 ELEVATION: VA	045	
PROJEC	T NO.:	9	90142	- LEB		(DATE:	19	
DRILLER	:	(b)	(4)		h:crose	استع	ELEVATION: <u>I/A</u>		
FIELD GE	EOLOGI	S1:							
WATER L	EVEL D	ATA:	<u> </u>	(•	
(Date, Tir	ne & Co	onditions):	4-	5 pm			T	
Semple No. &	Depth (ft)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATER	AL DESCRIPTION	usce	
Type or . RQD	or Run No.	6' or RQD (N)	Sample length	or Screened Interval	Soll Deneity Consistency		MATERIAL	USCA Rock Bro- keneve Pro-17th-re	REMARKS OVM
					or Rock hardness	Color	CLASSIFICATION	moistan	reading
*			3-4'		Hard	Red Bram	CL - Clay		oppm
							/		
·									
						*	LEB-ASB045-70001	1	
							7,70		
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<u>-</u>									
CMADKC									



					C , 1	6	INDING NO . ACROS	46	
PROJEC1	ī:	Libai	sos C	ompress	-n stat	<u> ۱۶۰۰ - ۲</u>	DATE: 10-14-9 ELEVATION: NA	9	
PROJEC1	NO.: _	9.	90142	- LEB	h h : c : = c :	E	ELEVATION: NA	,	
DRILLER:	= = = = = = = = = = = = = = = = = = = =	(D)	(4)		Michiga	CP)			
FIELD GE	OLOGI	SI:		U					
WATER L	EVEL U	ATA:	١٠		: Co om				
(Date, Tin	ne a CC	HUILIOID	<u>/</u>				41 DECODISTION		
Sample No. &	Dopth (ft.)	Blows,	Sample Recovery	Lithology Changes (Depth, fL)		MATERI	AL DESCRIPTION	USCS Rick Bro-	
Type or . RQD	or Run No.	6° or RQD (N)	Semple lo ngth	or Screened Interval	Soll Density Consistency or Rock herdness	Color	MATERIAL CLASSIFICATION	moistra	
*			0-1'	i	Firm	Brown	CL-Silty Clay	_	a ppm
				,					, ,
	<u> </u>								
				i		ļi			
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						*	LEB-ASB046-40001		
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REMARKS_									



PROJECT	:	Leba	non C	ompress	-n Stat	<u>ردی.</u> 3	DATE: 10-12-5 ELEVATION: 1/A	7	
PROJECT	NO.: _	9	90142.	- LEB			DATE: 10-12-5	ን ን	
DRILLER:		(D) (4)		- hicrose	- <u>Labs</u>	ELEVATION: 10/H		
FIELD GE	OLOGI	51: _		- Û		~		<u> </u>	
WATER L	evel D na & Co	nditions):	4:	2° pm.	4=40	in .		
Sample	Depth		Sample	Lithology Changes			AL DESCRIPTION	USCS Rock Bro- beneva	
No. &	(fL)	Blows, 6° or	Recovery Sample	(Depth, ft.)				Rack	
Type or RQD	or Run No.	RQD	length	Screened	Soll Density			<i>\$</i> ^-	REMARKS
		(4)		Interval	Consistency		MATERIAL	1 1	aun
					or Rock herdness	Color	CLASSIFICATION	moister	OUM reading
								_	
*			3-4'		·	Brank	CL- W/ sandy gravel		190ppm 75ppm
**			9-101			Brown	CL-w/sandygmal		1> ppm
						*	LEB-ASB047-40001	(6)	
						**	LEB-ASB 047-70001		
						76.75	LEO 1130 OT 1		
							2.1 /		
							1) PAHs analyzed		
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DEMARKS	·		<u> </u>						



PROJECT	T NO.: _	9	90142	- LEB			BORING NO.: A SBOY DATE: 10-13-1 ELEVATION: NA	1	
DRILLEK: F IEL D GE	OLOG!	ST.	7)		- Miches	<u> </u>			
WATER L									
(Date, Tin					3=25	pm	· · · · · · · · · · · · · · · · · · ·		
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)	•	•	AL DESCRIPTION	usce	
Type or 1 RQD	or Run No.	6° or RQD (N)	Sample length	or Screened Interval	Soll Density Consistency or Rock hardness	Color	MATERIAL CLASSIFICATION	USCS Rock Bro- kenous rnoistin	REMARKS OVM reading
*			0-1'			Brown	CL - Silty clay		
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PROJECT	I:	Liba	705 C	ompruss - IFR	-~)TY [BORING NO.: ASBO DATE: 10-13- ELEVATION: NA	99	
LAHOJEO	NO.: _	(b) (4)	<u> </u>	- hicrose	<u></u> E	LEVATION: μA		
EIELD GE	OLOGI:	ST							
IWATERI	EVEL U	IATA:							
(Date, Tin	ne & Co	onditions):	3=	40 pm				
Sample	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATERIAL DESCRIPTION			
No. & Type or , RQD	(fL) or Run No.	6° or RQD Blows,	Sample length	or Screened Interval	Soll Deneity		MATERIAL	USCS Reck Bro- teners	REMARKS
		((4)		1.0	Consistency or Rock hardness	Color	CLASSIFICATION	moistan	OVM reading
*			0-1			Brown	CL - Silty Clay	_	
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REMARKS	EMARKS								



PROJEC	PROJECT: Lchanon Compresson Station BORING NO.: ASB 050 PROJECT NO.: 990142- LEB DATE: 10-13-97 DRILLER: (b) (4) - h:cn:sceps ELEVATION: NA FIELD GEOLOGIST:								
PROJEC	T NO.: _	9	90142	- LEB		(DATE: 10-13-99		
DRILLER:	·	(b) (4)		- h:crose	192	ELEVATION: <u>PA</u>		
FIELD GE	OLOGI	ST:							
WATER L	EVEL U no & Co	MIA: anditions	1.	4:0	· o pm			· · · · · · · · · · · · · · · · · · ·	
(Date, 111	1	A Iditions	<u> </u>				AL DESCRIPTION		
Sample No. &	Depth (ft.)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATERI	USCS Fack Bro- kenete		
Type or . RQD	or Run No.	ROD	Sample length	or Screened Interval	Soll Denetty			Bro-	REMARKS
		(11)		######################################	Conelstency or Rock herdness	Color	MATERIAL CLASSIFICATION	moistra	OVM reading
ļ					112011000		<i>()</i>	1	
*			0-1'			Brown	CL- silty clay		··
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REMARKS		•	•						



PROJECT	PROJECT: Libanon Compresson Station BORING NO.: ASBOSI PROJECT NO.: 990142- LEB DATE: 10-13-39 DRILLER: DATE: 10-13-39 FIELD GEOLOGIST: ELEVATION: NA								
PROJECT	r NO.:	9	90142	- LEB			DATE: 10-13-99		
DRILLER:		(b) (4)		- hichese	202	LEVATION: PA		
FIELD GE	OLOGI	ST:							
(Date, Tit	(Date, Time & Conditions): 4:15 pm								
Sample No. &	Depth (ft.)	Blows,	Sample Recovery	Lithology Changes (Depth, fL)		MATER	AL DESCRIPTION	USCS Flyck Bro- keneve	
Type or	or Run		Sample	01	Soll			Hwck Bro-	REMARKS
ROD	No.	RQD (N)	longth	Screened Interval	Density		MATERIAL	No mode	OVM reading
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4			6-11			Dinas	(1 - (10 mm c)/+	_	_
*						Brown	CL - Clayey silt		
									
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REMARKS									



PROJECT: Libanon Compresson Station BORING NO.: A SBOSZ PROJECT NO.: 990142- LEB DATE: 10-13-99 DRILLER: DATE: HAZONIA DATA:									
PROJECT	NO.:	9.	90142.	<u>- LEB</u>			DATE: 10-13-9		 ,
DRILLER:	_	(b) (4)		- hicrose	<u> زمی</u> 3	LEVATION: PA		
FIELD GE	OLOGI	ST:							
IWAIEHL	ヒャヒにぃ	MIA							
(Date, Tin	ne & Co	nditions):	4.7	opn			,	
Sample	Depth		Sample	Lithology Changes		ATERI	AL DESCRIPTION	USCS Flock Bro- tyenote	
No. &	(ft.)	Blows,	Recovery	(Depth, ft.)				1 .6%	
Type or .	or Run	6° or	Sample	or	Soli			Horck	DEMANUE
ROD	No.	ROD	longth	Screened	Density			kenes	UCWALLES
		(1/1)		Intervel	Consistency		MATERIAL		OVM
					or Rock	Calaa	CLASSIFICATION	moistad	OUM reading
				200	herdness	Color		 	
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REMARKS									



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PROJECT: Libanin Compression Station BORING NO.: ASBOS3 PROJECT NO.: 990142- LEB DATE: 10-13-99 DRILLER: Library ELEVATION: NA FIELD GEOLOGIST:									
PROJEC.	r no.: _		90142	- LEB			ELEVATION: 1/A	17	
DRILLER:		(D) ((7)		- Microse	192	ELEVATION. PA		
FIELD GEOLOGIST:									
	WATER LEVEL DATA:								
(Date, Tit	ne a Ca	ZIOMOI IS	· 					1	
Sample No. &	Depth (ft.)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATERI	usce		
Type or . RQD	or Run No.	6' or RQD (N)	Sample length	or Screened Interval	Soll Density Consistency		MATERIAL	USCA Rock Bro- keneve	REMARKS OVM reading
	n 77				or Rock hardness	Color	CLASSIFICATION	moista	reading
*			0-11			Brown	CL - Clay w/silt	-	
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PROJECT	Γ:	Leba	non C	omeruss	-n Stat	<u>, 29</u> 1	BORING NO.: ASPO DATE: 10-13-99 ELEVATION: NA	54	
PROJECT	r NO.:	9	90142	- LEB		(DATE:		
DRILLER:	_	(b) (4)	-	- hicrose	293	ELEVATION: <u>IVA</u>		
FIFI D GE	OLOGI	ST:							
1 W/A TEO 1		1 A T A .							
(Date, Tin	ne & Co	onditions	s):	3 = 1	u pm		,		
Sample No. &	Depth (ft.)	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATER	USCE		
Type or : RQD	or Run No.	6° or RQD (N)	Sample length	or Screened Interval	Soll Density Consistency or Rock herdness	Color	MATERIAL CLASSIFICATION	USCA FORCK BATO Kennous Prosiding	REMARKS OVM reading
*			0-1				CL - Clayey silt	dry	
							7 /		
-						*	LEB-ASB054-40001		,
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PROJEC	T:	Leba	non C	ompres	in Stat	,eg_1	BORING NO.: <u>ASBOS</u> DATE: <u>10-12-79</u> ELEVATION: <u>NA</u>	<u> </u>	
PROJEC.	T NO.: _	9	90142	- LEB		!	DATE: 10-12-79		
DRILLER	. 	(D)	(4)	_	- hickese	- Ca7	ELEVATION: <u>VA</u>		
FIELD GE	OLOGI	S1:							
WATER L (Date, Tir			s):	5 -	20 pm			· · · · · · · · · · · · · · · · · · ·	
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)	,	MATER	uscas		
Type or (or Run No.		Sample length	or Screened Interval	Soll Density Consistency or Rock hardness	Color	MATERIAL CLASSIFICATION	HSCK Bro- keneve moisture	REMARKS OVM reading
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REMARKS									



PROJECT: <u>Lebanon Compresson Station</u> BORING NO.: <u>ASBOS</u> PROJECT NO.: <u>990142- LEB</u> DATE: <u>10-13-99</u> DRILLER: <u>(b) (4)</u> FIELD GEOLOGIST: <u>NA</u>									
PROJECT	Г NO.: _	9	90142	<u> - LEB</u>			DAIE: 10-13-7	7	
DRILLER:		(b)	(4)		- hicrose	5002	ELEVATION:	· ·	
FIELD GE	OLOGI	ST: _							
WATER L	EVEL D	ATA:							
(Date, Tin	ne & Co	onditions	s):	9 = 1	5 Am				
Sample No. &	Depth	Blows,	Sample Recovery	Lithology Changes (Depth, ft.)		MATER	usces		
Type or : RQD	or Run No.	6° or RQD (N)	Sample length	or Screened Interval	Soll Density Consistency		MATERIAL	USCS Pro- Pro- keneve	REMARKS
					or Rock hardness	Color	CLASSIFICATION	moista	, , , ,
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APPENDIX H BACKGROUND WORKSHEETS

CALCULATION OF ARSENIC BACKGROUND LEVELS

Note: Ten (10) background samples were collected.

Background Data for Arsenic:

LEB-ASB045-70001	6.4 mg/kg
LEB-ASB046-40001	7.6 mg/kg
LEB-ASB056-70001	6.7 J- mg/kg^1
LEB-ASB048-40001	4.0 mg/kg
LEB-ASB049-40001	6.2 mg/kg
LEB-ASB050-40001	5.7 mg/kg
LEB-ASB051-40001	6.5 mg/kg
LEB-ASB052-40001	7.4 mg/kg
LEB-ASB053-40001	7.2 mg/kg
LEB-ASB054-40001	<u>5.1 mg/kg</u>

Total = 62.8 mg/kg

Average = 6.3 mg/kg

<u>x2</u>

Calculated Background Level = 12.6 mg/kg

Maximum Background = 7.6 mg/kg

Identified Site Background Concentration = 12.6 mg/kg

*NOTE: Calculations based on: "Data Collection and Evaluation, Human Health Risk Assessment Bulletin, No. 2., Supplemental Guidance to RAGs." Office of Technical Services, U.S. EPA Region IV, October 1996.

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¹ J- = Value is estimated and may be biased low.

CALCULATION OF BARIUM BACKGROUND LEVELS

Note: Three (3) background samples were collected.

Background Data for Barium:

 $\begin{array}{lll} LEB-ASB045-70001 & 134.0 \text{ mg/kg} \\ LEB-ASB046-70001 & 86.4 \text{ J- mg/kg}^1 \\ LEB-ASB056-70001 & \underline{229.0 \text{ J mg/kg}^2} \\ \end{array}$

Total = 449.4 mg/kg

Average = 149.8 mg/kg

<u>x2</u>

Calculated Background Level = 299.6 mg/kg

Maximum Background = 229.0 mg/kg

Identified Site Background Concentration = 299.6 mg/kg

*NOTE: Calculations based on: "Data Collection and Evaluation, Human Health Risk Assessment Bulletin, No. 2., Supplemental Guidance to RAGs." Office of Technical Services, U.S. EPA Region IV, October 1996.

¹ J- = Value is estimated and may be biased low.

 $^{^{2}}$ J = Value is estimated.

CALCULATION OF BERYLLIUM BACKGROUND LEVELS

Note: Three (3) background samples were collected.

Background Data for Beryllium:

LEB-ASB045-70001	0.6 U mg/kg
LEB-ASB046-70001	0.6 U mg/kg
LEB-ASB056-70001	1.2 J- mg/kg^1

Total = 2.4 mg/kg

Average = 0.8 mg/kg

<u>x2</u>

Calculated Background Level = 1.6 mg/kg

Maximum Background = 1.2 mg/kg

Identified Site Background Concentration = 1.6 mg/kg

*NOTE: Calculations based on: "Data Collection and Evaluation, Human Health Risk Assessment Bulletin, No. 2., Supplemental Guidance to RAGs." Office of Technical Services, U.S. EPA Region IV, October 1996.

¹ J- = Value is estimated and may be biased low.

CALCULATION OF CHROMIUM BACKGROUND LEVELS

Note: Three (3) background samples were collected.

Background Data for Chromium:

LEB-ASB045-70001	18.3 mg/kg
LEB-ASB046-70001	22.2 mg/kg
LEB-ASB056-70001	19.6 J- mg/kg^1

Total = 60.1 mg/kg

Average = 20.0 mg/kg

<u>x2</u>

Calculated Background Level = 40.1 mg/kg

Maximum Background = 22.2 mg/kg

Identified Site Background Concentration = 40.1 mg/kg

*NOTE: Calculations based on: "Data Collection and Evaluation, Human Health Risk Assessment Bulletin, No. 2., Supplemental Guidance to RAGs." Office of Technical Services, U.S. EPA Region IV, October 1996.

¹ J- = Value is estimated and may be biased low.

CALCULATION OF NICKEL BACKGROUND LEVELS

Note: Three (3) background samples were collected.

Background Data for Nickel:

LEB-ASB045-70001	19.4 mg/kg
LEB-ASB046-70001	19.2 mg/kg
LEB-ASB056-70001	24.9 J- mg/kg ¹

Total = 63.5 mg/kg

Average = 21.2 mg/kg

<u>x2</u>

Calculated Background Level = 42.3 mg/kg

Maximum Background = 24.9 mg/kg

Identified Site Background Concentration = 42.3 mg/kg

*NOTE: Calculations based on: "Data Collection and Evaluation, Human Health Risk Assessment Bulletin, No. 2., Supplemental Guidance to RAGs." Office of Technical Services, U.S. EPA Region IV, October 1996.

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¹ J- = Value is estimated and may be biased low.